Develop coding of specification bank and orientate all DoHS divisions' staff on its use



Ministry of Health
Department of Health Services
Logistic Management Division
2017/18

Abbreviations and Acronyms

CAPP Consolidated Annual Procurement Plan

CMC CAPP Monitoring Committee

DoHS Department of Health Services

e-bidding Electronic Bidding

e-GP Electronic Government Procurement

e-LMIS Electronic Logistics Management Information System

ECRI Emergency Care Research Institute

EDP External Development Partner

GMDN Global Medical Devices Nomenclature

GoN Government of Nepal

ID Identity

INN International Non-proprietary Name

IT Information Technology

LMD Logistics Management Division

MoH Ministry of Health, Nepal

NHSS Nepal Health System Strategy
PIP Procurement Improvement Plan

PPA Public Procurement Act

PPMO Public Procurement Monitoring Office

PPR Public Procurement Regulations
SOP Standard Operating Procedure

TA Technical Assistance

TABUCS Transaction Accounting and Budget Control System

TC Technical Committee

TSB Technical Specifications Bank

UMDNS Universal Medical Devices Nomenclature System

UNICEF United Nations International Children's Emergency Fund (United

Nations Children's Fund)

VfM Value for Money

WHO World Health Organisation

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CHAPTER 1 - INTRODUCTION

1.1 Background

The Technical Specification Bank (TSB) and coding of specifications are important priorities of the Nepal Health Sector Strategy (NHSS, 2015-2020) (MoH, 2015). Improving efficiency, economy, and transparency on procurement and the supply chain of drugs and medical equipment in Nepal's health sector is a common priority for both the Government of Nepal (GoN) and External Development Partners (EDPs). A number of challenges including delays in preparing annual procurement plans, an inadequate number of appropriately skilled personnel, the frequent transfer of trained staff, weak supply chain management, inconsistent use of the TSB, incomplete use of Electronic Government Procurement (e-GP), and some concerns over procurement governance have contributed to weak procurement performance at the Logistic Management Division (LMD). Recently, the LMD has initiated some reform practices to improve the procurement cycle through the formulation of the Procurement Improvement Plan (PIP), establishment of the Consolidated Annual Procurement Plan (CAPP) Monitoring Committee (CMC), coding of the TSB, use of e-GP, and improving responsiveness through procurement clinics. This report highlights the technical details while developing and endorsing the TSB and its coding mechanism. The TSB includes the coding of drugs and medical equipment based on previous and recent decisions made by the Department of Health Services (DoHS) in October 2017. The coding of drugs and equipment will support the LMD to prepare procurement plans, bidding documents, and inventory management accurately and efficiently. In the devolved context, the role and scope of the LMD in procuring drugs and medical equipment using current systems and procedures may be redefined. The current TSB can be used at all levels which will assure the quality of drugs and medical equipment procured. The TSB can also be used by the federal, provincial, and local level government institutions so as to bring uniformity and coherence to procurement and service delivery throughout the country.

1.2 Rationale

Technical specification is the detailed qualitative requirement of the procurement process. It should cover the material composition, physical, dimensional, and performance parameters. The preparation of specifications has the greatest impact on quality and value-for-money (VfM) in procurement. The Specification Bank is a central collection of standardised technical specifications of drugs and medical equipment for the purpose of procurement. Prior to the endorsement of the TSB by the LMD (i.e. prior to the fiscal year 2012/13), the specifications of drugs and equipment used to be developed by the respective Divisions and Centres. The Divisions/Centres would either use earlier developed specifications or create a set using the existing specifications combined with information found on the internet. No written standard procedures were available while developing the technical specifications. The main drawback of the practice was that the procurement unit had to develop and collect technical specifications every time they prepared solicitations. This practice of preparing technical specifications normally takes a long time which leads to a significant delay in procuring drugs and medical equipment.

The LMD has started using the TSB since January 2013 by uploading it onto its website. However, it was not adequately used by the LMD and concerned divisions. The Nepal Health Sector Support Programme (NHSSP) has supported the LMD to internalise the importance of the complete use of the TSB while preparing bidding documents. In the absence of standard coding of the drugs and equipment, the users have faced difficulties in tracing the specifications of the required drugs and

equipment. The users had limited scope while searching their requirements. As a result, the LMD had to provide printed specifications, which claimed more time and resources. More importantly, there was a very limited use of the TSB uploaded onto the LMD website. The main reasons for not using the TSB were very slow web performance, a lack of coding, and the fact that its use was not mandatory. In order to address these points, the DoHS decided in October 2017 to finalise the TSB and its coding mechanism, and make its use mandatory.

1.3 Objectives

The coding of the TSB includes the number of specific tasks that collectively contribute to improving procurement functions at the LMD. *The specific objectives of coding* of the standard technical specification for drugs and equipment are to:

- 1. Define the codes for drugs and medical equipment
- 2. Develop an IT system to make the specification bank more user-friendly
- 3. Train DoHS staff members on using codes in the procurement process and inventory management (development of CAPP, preparation of Bidding Documents etc.)
- 4. Upload the specification bank onto the LMD's website

1.4 Methodology

The Technical Assistance (TA) team of the NHSSP and short term consultants have supported the LMD to prepare and standardise the coding system of the drugs and medical equipment. The coding system of drugs and medical equipment was finalised during a two day workshop held on September 8 and 9, 2017. The list of participants and agenda of the workshop are given in **Annex 1.** The coding is built into the TSB and this supported the LMD to upload in to the LMD website. IT support was provided to make the TSB user-friendly and oriented the DoHS staff for using and periodically updating the TSB. The super administrator of this is the Director General of the DoHS. The LMD has dedicated its IT section to address any web related issues. The detail of the recently updated TSB can be accessed at www.dohslmd.gov.np (click on Technical Specification Bank).

1.5 Revitalise the TSB

The TSB provides a collection of specifications that do not favour any particular brand, trade mark, name, design, or origin (GoN, 2007). The TSB can be used by the LMD, district health offices, Health Institutions, and local government to procure standard high quality drugs and equipment. The TSB saves time by providing off-the-shelf standard specifications to procure quality drugs and medical equipment which enables faster, more efficient, and more transparent procurement practices. It is also useful for potential suppliers to prepare their business plan for the health sector in Nepal. However, technology and requirements in health services have been changing and developing day by day. The standard specifications should be periodically revised to match the evolving needs.

Apart from the items available in the TSB such as Hospital Equipment, Cold Chain Equipment, and Essential Drugs, the LMD is also procuring other drugs and equipment such as Programme Medicines, Family Planning Commodities/Kits/Instruments, Nutritional Commodities, and Vaccines. The World Health Organisation (WHO) prequalified standard has been adopted for vaccine and family planning commodities. These specifications are not completely included in the TSB and its coding. LMD has decided to have the technical discussions with WHO, UNICEF, UNFPA and concerned partners before including the abovementioned instruments, commodities and vaccines in the TSB. Most of these items are being supplied by the partners.

Procurement requires continuous feedback from the suppliers, market intelligence, and vigilance agencies. Proper use of the TSB is challenging until there is proper feedback and a proper information system in the LMD regarding the fairness and lack of bias of the specifications included in the TSB. As a result, the DoHS has recently updated and endorsed standard specifications and the TSB. More importantly, the MoH has instructed the DoHS to make the use of standard specifications from the TSB mandatory and this has been recognised by a departmental decision in October 2017...

1.6 Effective use of the TSB

It was realised that the TSB has not been used effectively by the LMD, Divisions/Centres, and health institutions. The TSB has also not been properly used by entrepreneurs as reference to explore their business opportunities in the government tenders. There was no recording system of the visitors and users in the TSB. Therefore, the LMD has updated the TSB, made it user friendly, and introduced identification by unique codes for each specification of drugs and equipment. Gradually, the LMD will expand the TSB and categorisation of the bank into several other categories i.e. vaccines, family planning commodities, reagents, medical consumables, and nutritional commodities, etc.

Globally, there are two systems of nomenclature and codification of medical devices: the Global Medical Devices Nomenclature (GMDN) and the Universal Medical Devices Nomenclature System (UMDNS). The current priority for the LMD is to codify free essential drugs, equipment, devices, and commodities. The LMD will gradually interface its codification for drugs and equipment with global systems. The current IT solution to the codification has a provision to interface with other potential systems. Therefore, at present LMD follows its own unique coding system as explained in the next sections.

LMD will gradually update the TSB and its coding mechanism. A technical committee will be formed at the LMD involving LMD officials, experts, procurement professionals, and representatives from relevant organisations. The committee will be responsible for the periodic updates of the TSB and coding. The unique code of the newly entered specification will be auto generated by the system itself. The IT system will be locked by the DoHS to avoid unauthorised intervention. The concerned individuals will adhere to use standards listed in the bank without any modification. Information about the prepared specification bank will be conveyed among potential bidders and the procuring entities.

It is also expected that the standard specifications with codes will also allow the development of a maintenance manual for each type of medical goods, the conducting of effective procurement training, and monitoring of the efficiency of the procurement entity. A continuous monitoring and feedback mechanism will be set up at the LMD to ensure its proper use. The database will be checked periodically by the LMD and they will respond to any queries.

1.7 Scope of the Task

The scope of this task is to develop the coding of the TSB and orientate the DoHS divisions' staff on the use of the TSB for all procurement activities. Therefore, the NHSSP has supported LMD in coding the existing technical specifications, developing IT solutions to make the TSB user-friendly, uploading them onto the LMD website, and *training DoHS staff on using the TSB in the procurement process and supply chain management.*

The standardisation and coding of the TSB is also concerned with the standard nomenclature of the medical goods. There are several practices of nomenclature of medical devices. The current task is not related to the nomenclature of the medical goods. It rather limited to coding the TSB to facilitate the LMD's procurement process. It further links the TSB into Consolidated Annual Procurement Plan (CAPP) preparation, bidding documents, evaluation, and inventory management. The IT system of the TSB can also search for required items by means of common hitting words and phrases. The IT system will be able to link, in future, to the global standards of technical specification banks and nomenclature systems like WHO, GMDN, and UMDNS etc.

CHAPTER 2 - STANDARD TECHNICAL SPECIFICATION BANK OF EQUIPMENT AND DRUGS

2.1 Legal Provisions

The approval of Technical Specifications along with cost estimate is mandatory before processing for procurement as per the Public Procurement Act (PPA), 2007 and Public Procurement Regulations (PPR), 2007. The PPA provisions for Technical Specifications are as follows:

- Public entities shall prepare specifications, plans, maps, designs, special requirements, or other descriptions of goods, civil works, or services before the solicitation of procurement proceedings. [Clause 4(1)].
- Technical Specifications shall be based on product characteristics, technical features, quality requirements, and performance of the product [Clause 4(2)].
- Technical Specifications shall be based on objective, functional and generic standardised trade terms and conditions.
- Technical Specifications shall not use the name of any brand, trademark, name, patent, design, type, origin, or producer/suppliers. In the case of necessity "or equivalent" can be used [Clause 4(3)].
- Technical Specifications shall not use any type of words that are unrelated, restrict participation, or limit competition [Clause 4(4)].

2.2 Standard TSB for Equipment

The DoHS has endorsed 1089 standard specifications of medical equipment. The LMD used the common nomenclature widely used by the government and the private sectors in this region. As the TSB was made a few years back, there have been changes in technology. Therefore, the updating and revision of the TSB has been considered as a continuous process. The template for standardised Technical Specifications includes the following points:

- 1. Description of Function
- 2. Operational Requirements
- 3. System Configuration
- 4. Technical Specifications
- 5. Accessories, Spares, and Consumables
- 6. Operating Environment and Power Supply
- 7. Standards and Safety Requirements
- 8. Training (User/Maintenance)
- 9. Warranty
- 10. Maintenance Service During Warranty Period
- 11. Installation and Commissioning
- 12. Documentation

A Standard Template for Technical Specifications is given in Annex 2, A

2.3 Standard TSB for Drugs

The DoHS has endorsed the TSB comprising standard Technical Specifications of 108 free essential drugs. Updating and revising the TSB has been considered as a continuous process. The template for standardised Technical Specifications include the following points:

- 1. INN/Generic Name
- 2. Dosage Form
- 3. Strength
- 4. Standard
- 5. Basic Unit
- 6. Primary Pack
- 7. Quantity Primary Pack in Supply Unit
- 8. Special Storage
- 9. Shelf Life

A Standard Template for Technical Specifications is given in Annex 2, B

CHAPTER 3 - CODING OF THE TSB

3.1 Introduction

Institutionalising the process of using codes for the procurement of drugs and equipment can bring consistency in the use of standard specifications and avoid any chance of individuals or institutions skewing specifications. Institutionalisation also results in consistency in the procurement of drugs and equipment over the procuring entities. The TSB must be linked with the CAPP through coding, the e-bidding process, and inventory management.

Codification gives a particular specification of an item a unique Identification number, which avoids duplication and avoids confusion while defining the requirement. It is the process, drugs and equipment are identified, classified, and uniquely numbered in a uniform manner. Providing unique characters helps in differentiating the items to be procured. This codification action is based on a predetermined pattern methodology usually used as a format or standard. Codification entails the allocation of a standard description in a specific format, with attributes/characteristics coupled to each defined description. The LMD used the following two types of codes:

- 1. Category Classification code
- 2. Product Identification code

The coding is done with six digit numbers and the first set of three digits denotes the category and the last set of three denotes the items within that particular category. For example, in medical equipment, the LMD currently has 45 categories and the codes of these categories are 101, 102, 103,, 145. The three digit category is created in order to have harmonious coding and uniformity for all the categories. Similarly, there are 40 categories in drugs, which are coded as: 201, 202, 203,, 240. A harmonious numeric coding system is adapted similar to the *Dewey Decimal* classification of books in library science. The new items added into the category will be continued until the number reaches 999. It is assumed that items in a particular category shall not exceed 999 (exceeding the limitation of a six digit code) for many years. The first digit of code '1' stands for 'Equipment' and similarly '2' stands for 'Drugs'. Periodic updates to the specification with coding will be done whenever the revision, addition, and replacement of specifications and/or items is necessary. Once there is any changes made in the specifications, the specification of that item will be systematically codified by the system as a new code with respect to the categories, where the codification of the categories remains unchanged.

3.2 Coding of the Equipment

The TSB of the LMD has several categories of goods such as medical equipment, hospital furniture, cold chain equipment, surgical goods, laboratory supplies, drugs, medicine, and vaccines, etc. There is no uniformity on international nomenclature and coding for all of these items. There are different codification systems adapted by different agencies such as: the Emergency Care Research Institute's (ECRI's), Universal Medical Devices Nomenclature System (UMDNS), Global Medical Devices Nomenclature (GMDN), WHO (Drugs and Vaccine), and UNICEF (Cold Chain equipment), etc. Currently, the LMD has a total of 1089 specifications in the TSB of equipment. Coding of equipment has 45 categories, having coding as 101101 to 145106 (See table 1). The categorisation is based on the speciality of discipline in medicine.

Table 1: Coding of categories of Medical Equipment

100000	Medical Equipment		
Code	Category	Code	Category
101	Anaesthesia & OT	124	Microbiology
102	Biochemistry	125	Nephrology
103	Biotechnology	126	Neurology
104	Blood Bank	127	Neurosurgery
105	Burns and Plastic Surgery	128	Nutrition & Dietetics
106	Cardiology & CTVS	129	Obstetrics & Gynaecology
107	Cold Chain & Refrigeration Equipment	130	Ophthalmology
108	CSSD	131	Orthopaedics
109	Dental & Dental Surgery	132	Paediatrics
110	Dermatology & STD	133	Pathology
111	Diagnostic Equipment	134	Physiotherapy
112	Endocrinology	135	Plant Machinery and Testing Equipment
113	ENT	136	Psychiatry
114	Food Lab Equipment	137	Radiology
115	Forensic Medicine Equipment	138	Radiotherapy
116	General Supplies	139	Respiratory Medicine
117	Haematology	140	Surgery
118	Histopathology	141	Surgical Instruments
119	HIV Aids	142	TB, DST & Culture Laboratory
120	Hospital Furniture	143	Transportation Equipment
121	ICU CCU	144	Urology
122	Immunology	145	Waste Management
123	Linen Items		

The complete coding list of Medical Equipment is given in **Annex 3**

3.3 Coding of Drugs

The coding of drugs has 40 categories with coding as 201101 to 240102. (See Table 2). The categories are as per the WHO classification of essential drugs. Currently, a total of 108 specifications are included in the TSB of drugs.

Table 2: Coding of categories of Drugs

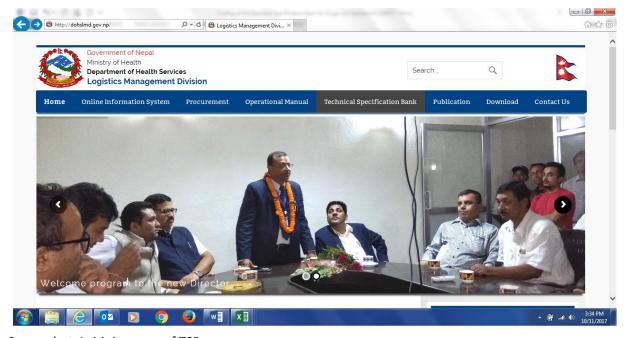
200000	Drugs (Pharmaceuticals)		
Code	Category	Code	Category
201	Anaesthetic	221	Dermatological Medicines (Topical)
202	Medicines For Pain and Palliative Care	222	Antiseptics and Disinfectant
	Anti-Allergic and Medicines used in		
203	Anaphylaxis	223	Diuretics
	Antidotes and Other Substances used in		
204	Poison	224	Gastrointestinal Medicine
205	Anticonvulsants and Antiepileptics	225	Antiemetic Medicines

206	Intestinal Anti-Helminthic Medicines	226	Medicines used in Diarrhoea
207	Antibacterial Medicines	227	Hormones and Contraceptives
208	Anti-Leprosy Medicines	228	Ant-diabetics Medicines
209	Anti-Tuberculosis Medicines	229	Thyroid and Anti-thyroid Medicines
210	Antifungal Medicines	230	Sera and Immunoglobulins
211	Antiviral Medicines	231	Vaccines
212	Anti-Retroviral Medicines	232	Ophthalmological Preparations
213	Anti-hepatitis Medicines	233	Oxytocics and Anti-oxytocics
214	Anti-filarial Medicines	234	Medicines for Mental and Behaviour Disorders
215	Antimalarial Medicines	235	Medicines Acting on Respiratory Tract
216	Antineoplastic and immunosuppressive Medicines	236	Solutions Correcting Water, Electrolyte and Acid-Base Disturbances
217	Anti-parkinsonism Medicines	237	Vitamins and Minerals
218	Anti-anaemia Medicines	238	Nose and Throat Medicines
219	Human Immunoglobulins	239	Specific Medicines for Neonatal Care
220	Cardiovascular Medicines	240	Medicines for Diseases of Joints

The complete coding list of Pharmaceuticals is given in Annex 4

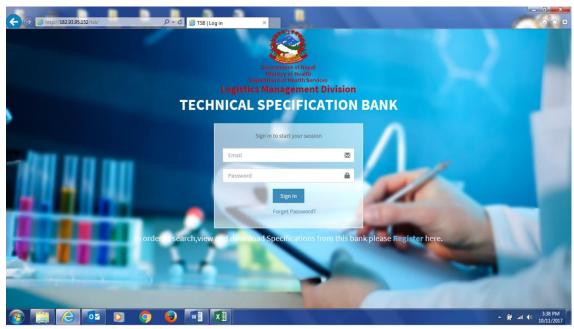
3.4 Linking the TSB with the LMD's Website

The LMD has its own domain and URL: http://www.dohslmd.gov.np. The TSB is located on the LMD website. The menu 'Technical Specification Bank' is the entry point of the TSB. See Screenshot-1.



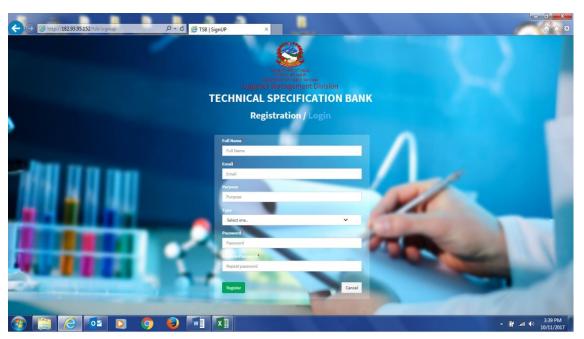
Screenshot-1: Main menu of TSB

The menu opens to Log-In screen from where a user can enter into the bank. See Screenshot-2.



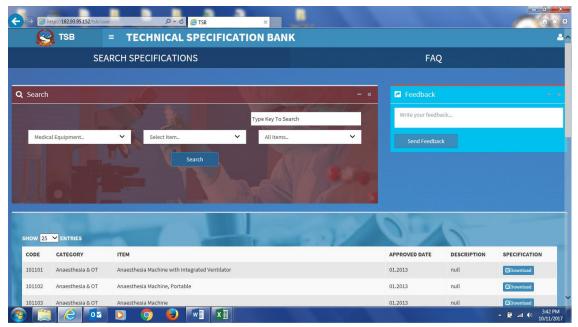
Screenshot-2: Log-In screen

If users do not have a user name and password, they can register themselves in the system by clicking the "Register" button. The system asks users to register themselves in the system, see Screenshot-3. The user with his/her identity shall then be registered in the LMD user list. The user name shall be an e-mail address of the user.



Screenshot-3: User Registration screen

After logging in with a username (e-mail ID) and password, there are two main areas of the TSB: "Medical Equipment" and "Pharmaceuticals". After selecting the desired area, the user can search based on category, item, and keyword. Search options display as follows: see Screenshot-4.



Screenshot-4: TSB with code, category, and item.

Feedback mechanism: The system allows for a continuous monitoring and feedback mechanism through the LMD's website, set up at the LMD for maintenance of the specification bank and insuring its proper use. The database shall be checked by an officer assigned by the LMD and they will report their findings to the LMD. If amendments to the technical specifications are required, the information shall be sent to the LMD for necessary actions.

3.5 Training DoHS Staff

A one day training has been provided to the DoHS staff members responsible for the procurement process. A total of 38 staff members participated in the training. The training intended to build the capacity of staff members in using the TSB. The contents of the training were:

- Provide information on the TSB and its features along with coding systems
- Orient participants on the use of codes in the procurement process and use of standard templates in technical specifications
- Orient staff on the use of the TSB uploaded on the LMD's website
- Collected suggestions from participants on the coding system and IT solutions

After having input from participants, the TSB has been officially launched on the LMD's website. The concerned individuals and institutions are currently using the TSB on the LMD's website. A detailed list of participants is included in **Annex 1**. Details on the TSB can be found at http://dohslmd.gov.np/

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CHAPTER 4 - CONCLUSION AND WAY FORWARD

4.1 Conclusion

The development of the TSB for drugs and equipment is an important and ongoing task. Designing the standard technical specifications and having them approved is the foundation of the TSB's coding. It requires some technical expertise to determine the configuration of drugs and equipment for the solicitation of bids. In this context, the TSB is designed as a web based database of the standard specifications of drugs and equipment approved by the DoHS in October 2017.

There are now 1197 technical specifications in the LMD's TSB and they are divided into two main groups: 1. Medical Equipment and 2. Drugs (Pharmaceuticals). The TSB of medical equipment consists of 45 categories and has a total of 1089 technical specifications of medical equipment, hospital furniture, cold chain equipment, and laboratory supplies, etc. Similarly, the TSB of drugs consists of 40 categories having 108 specifications of free essential drugs and programme medicines. All technical specifications have their own unique six character numeric code, which is recognised by the IT system with corresponding common nomenclature and standardised technical specifications. The TSB is user friendly, has optimised search capabilities, and is a user registered database system. The TSB is a live system and can be updated at any time. The new specification will exist with a new code automatically generated by the system. The old specification will remain in the TSB and can be displayed or hidden by the administrator as necessary. The TSB can be harmonised, in future, to be compatible with international practices with the appropriate nomenclature.

The TSB can be accessed through the LMD's website: www.dohslmd.gov.np (Technical Specification Bank). Anyone can have a user ID, which can be registered with the admin system of the TSB. The users can be registered as government offices, External Development Partners (EDPs), entrepreneurs, academics, and individuals, etc.

4.2 Way Forward

The standardisation and coding of the technical specifications of drugs and equipment is an ongoing process. The DoHS will take the necessary actions to update the current TSB with coding and its proper use. The following tasks will be carried out for the continuous generation and dissemination of standard specifications for drugs, medical equipment, and other items:

• Formation of a Technical Committee: A Technical Committee (TC) will be formed involving LMD officials, experts, procurement professionals, and representatives from relevant organisations for the development of new product specifications, updating the TSB with coding, and the standardisation of new specifications. There must be a strong justification for updating specifications and they must approved by the relevant authority.

¹ There are more than 400 technical specifications of essential drugs including that of vaccines, kits, contraceptive drugs and devices, surgical and medical consumables, and medical gases. They are available on the offline TSB only. As per the mandate of the workshop, the specifications are needed to revise before uploading on the online TSB. They shall be uploaded gradually after revision and approval by the DoHS.

- Mandatory Usage: As per PPA/PPR, technical specification is legally mandatory before
 finalising bidding documents for any procurement process. MoH should make
 mandatory for all health facilities to use the standard technical specifications from the
 TSB. Necessary instructions therefore need to be provided to all entities and request
 letters with detailed information should be sent out to municipalities and rural
 municipalities.
- Periodic Update of the TSB: The TSB is a live web-based information platform in its application. However, in practice, frequent changes made within a short time period could hamper the procurement process. The DoHS needs to determine a specific time frame for periodic updates. The recommendation of the technical committee will also be required to make any updates.
- Manufacturers'/Suppliers' Conference for validation: The LMD and all institutions
 under the MoH need to implement the TSB. It is necessary to inform suppliers and
 stakeholders about the use of the TSB. The LMD will organise a suppliers' conference to
 disseminate the TSB.
- Federal restructuring adjustments: The TSB will also be reviewed as per the
 requirement of the devolved context. Standardisation of lists of medical equipment for
 different levels of health facilities and their respective specifications may be revised
 and finalised once the structure itself is finalised.
- Security measures: Standard technical specifications may not be subject to frequent changes without the approval of the relevant authority. The Standard Operating Procedures (SOP) of the TSB shall be developed and endorsed by the MoH for the effective use of the TSB. It is also important to ensure its safe usage online as well as offline. In this way managing the safety of the TSB database needs to be assured.
- Nomenclature of medical equipment: Nomenclature is related with coding system used to generically identify the medical equipment and other health related products. The ECRI Institute, UMDNS, and the GMDN are some of the recognised systems recognised as the international best practices. The WHO has also recommended the use of a nomenclature system for medical devices. The IT system will be upgraded to link the TSB with GMDN, UMDNS, or the WHO system so that the nomenclature of the medical equipment and devises will be harmonised with international practices.
- Linking the TSB with other functions of the LMD: The TSB shall be linked with the preparation of the CAPP by all the divisions of the DoHS. Similarly, codes can be linked with e-bidding by the e-GP system of the Public Procurement Monitoring Office (PPMO). In the coming days, the TSB can also be linked with the Electronic Logistics Management Information System (e-LMIS) and the Transaction Accounting and Budget Control System (TABUCS) for connecting with the supply chain management and financial management. Continuous web based feedback from users, suppliers, EDPs, and other concerned stakeholders, will be managed at the LMD.

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ANNEXES

Annex 1: List of Participants and Training Content

List of Participants

S.N	Name and Address	Designation	Office
1	Mr. Chudamani Bhandari	Deputy Director General	DoHS
2	Dr. Ramesh Kumar Kharel	Director	DoHS-LMD
3	Mr. Bhogendra Raj Dotel	Director	DoHS-PHCRD
4	Dr. Mohan Kumar Prasai	Acting Director	NTC
5	Mr. Hari Singh Dhami	Legal Officer	DoHS
6	Dr. Suresh Tiwari	PPFM Lead Advisor	NHSSP
7	Mr. Ramesh Kumar Sharma	Senior Public Procurement Advisor	NHSSP
8	Mr. Rana Bahadur Gharti	Public Health Inspector	DoHS-LMD
9	Mr. Ram Kaji Bhomi	Procurement Specialist	NHSSP
10	Mr. Keshab Prasad Dhakal	Procurement Implementation Advisor	NHSSP
11	Mr. Lalan Prasad Shah	Public Health Inspector	DoHS-LMD
12	Mr. Asish Shrestha	Procurement Officer	DoHS-LMD
13	Mr. Garan Singh Bista	Section Officer	DoHS-LMD
14	Mr. Pan Bahadur Kshetry	Senior Drug Administrator	DDA
15	Mr. Pramod K. C.	Senior Quality Controller	NML/DDA
16	Mr. Prakash Raj Pant	Senior Supply Chain Advisor	PMI/Jhpiego
17	Mr. Ram Dev Adhikari	Data Management Officer	DoHS-LMD
18	Ms. Sumitra Thapa	Pharmacy Officer	DoHS-PHCRD
19	Ms. Chandru Parajuli	Pharmacy Officer	DoHS-PHCRD
20	Mr. Bhim Prasad Sharma	Software Engineer	Saipal Technologies
21	Mr. Pankaj Adhikari	Managing Director	Saipal Technologies
22	Dr. Gambhir Shrestha	Medical Officer	DoHS-CHD
23	Mr. Rebati Thapa	Health Assistant	DoHS-LMD
24	Mr. Prawesh Khatiwada	Pharmacist	DoHS-LMD
25	Mr. Prakash Aryal	Biomedical Engineer	NPHL
26	Pankaj Kumar Jha	Biomedical Engineer	DoHS-LMD
27	Mr. Shankar Prasad Kandel	Public Health Inspector	DoHS-LMD
28	Mr. Deepak Adhikari	Public Health Officer	DoHS-LMD
29	Mr. Amrit Sharma	Mechanical Engineer	DoHS-LMD
30	Mr. Chandra Kanta Subedi	Data Analyst	DoHS-LMD
31	Mr. Dipak Sharma	System Administrator	DoHS-LMD
32	Mr. Bade Babu Thapa	Senior Pharmacy Officer	DoHS-LMD
33	Mr. Rajendra Prasad Ghimire	Senior Public Health Officer	DoHS-CHD
34	Mr. Santosh Mishra	Mechanical Engineer	DoHS-LMD
35	Ms. Sangita Shah	Drug Administrator	DoHS-LMD
36	Mr. Santosh K. C.	Drug Administrator	DDA
37	Mr. Sujit Banskota	Consultant	NHSSP
38	Mr. Sajnay Bhatta	Pharmacist	DoHS-LMD

Agenda of the Workshop

- I. To disseminate the information about the TSB and its features along with the coding systems
- II. To collect suggestions from the relevant participants about the developed coding system and IT solution established
- III. To orient the participating staff from the DoHS about the usage of codes in the procurement and supply chain process and use the standard templates of technical specifications
- IV. To train the DoHS staff on how to use and maintain the IT system of the TSB

Annex 2. Standard Template for Technical Specifications

A. Standard Template for Technical Specifications - Medical Equipment

	Name of Equipment
S.N.	Purchaser's Specifications
	Equipment Name
	Manufacturer:
	Brand:
	Type/Model:
	Country Of Origin:
1	Description of Function
1.1	
2	Operational Requirements
2.1	
3	System Configuration
3.1	
4	Technical Specifications
4.1	
4.2	
4.3	
5	Accessories, spares and, consumables
5.1	
5.2	
6	Operating Environment and Power Supply
6.1	
6.2	
7	Standards and Safety Requirements
7.1	
8	Training (User / Maintenance)
8.1	
9	Warranty
9.1	
10	Maintenance Service During Warranty Period
10.1	
11	Installation and Commissioning
11.1	
11.2	
12	Documentation
12.1	
12.2	

B. Standard Template for Technical Specifications – Pharmaceuticals

Name of Pharmaceutical	
INN/Generic Name	
Dosage form	
Strength	
Standard	
Basic Unit	
Primary Pack	
Quantity primary pack in supply unit	
Special Storage	
Shelf Life	

Annex 3: Coding of Standard Specifications of Medical Equipment

100000 Medical Equipment

100000	Medical Equipment
Code	Product Name
101	Anaesthesia & OT
101101	Anaesthesia Machine with Integrated Ventilator
101102	Anaesthesia Machine, Portable
101103	Anaesthesia Machine
101104	Anaesthesia Pendant
101105	Anaesthesia Workstation
101106	Autoclave Electric
101107	Autoclave for CSSD (80I)
101108	Autoclave, Horizontal (400 Litres)
101109	Autoclave, Horizontal (Fully Automatic)
101110	Autoclave, Horizontal
101111	Autoclave, Non-Electric with Four Dressing Drums
101112	Autoclave, Non-Electric
101113	Autoclave, Vertical (Fully Automatic)
101114	Autoclave, Vertical Large (500x900mm)
101115	Autoclave, Vertical
101116	Bed, ICU
101117	Blood Gas Analyser
101118	Bronchoscope, Fibreoptic (Adult)
101119	Bronchoscopy Simulator
101120	Centralize Manifold Room and Medical Gases Pipeline
101121	Cylinder Oxygen, 10L with Trolley, Regulator & Flow Meter and Bubble Humidifier
101122	Cylinder, Nitrous Oxide, 10L (with Trolley, Regulator, Flow Meter and Bubble Humidifier)
101123	Cylinder, Nitrous Oxide, 46L
101124	Cylinder, Nitrous Oxide, 5L (for Anaesthesia Machine)
101125	Cylinder, Oxygen, 1.6m3 (incl. refilling tool)
101126	Cylinder, Oxygen, 10L (with Flow Meter, Trolley and Bubble Humidifier)
101127	Cylinder, Oxygen, 46L
101128	Cylinder, Oxygen, 5L (for Anaesthesia Machine)
101129	Dispenser, Disinfectant
101130	Drum Sterilizing-165mm Diameter
101131	Drum Sterilizing-260mm Diameter
101132	Drum Sterilizing-290mm Diameter
101133	Drum Sterilizing-340mm Diameter
101134	Examination Light, Wall Mounted
101135	Feeding Pump, Enteral
101136	Fluid Warming-Delivery System
101137	High Pressure Station
101138	Hyperbaric Chamber-Monoplace
101139	Hypo-Hyperthermia Machine
101140	Infusion Pump

101141	Laminar Air Flow Ceiling System with HEPA Filters
101142	Odour Control System
101143	Operating Light Ceiling Type (Single Dome)
101144	Patient Controlled Analgesia Pump
101145	Patient Monitor, Portable
101146	Pulse Oxymeter (Spot-Check)
101147	Steriliser, Electric (14I)
101147	Steriliser, Electric (251)
101148	Steriliser, Electric (23)
101149	Sterilizer, Non Electric (24I)
101150	Sterilizer, Non Electric (241) Sterilizer, Non Electric (39L)
101151	Suction Pump, One bottle Electric (Aspirator)
101153	Syringe Infusion Pump
101153	Tourniquet Electronic (Automatic)
101154	Transport Monitor
101156	Trolley Anaesthetic Use
101157	·
101157	Trolley, Emergency Patient Universal Anaesthesia Machine (UAM)
101158	Ventilator, Non Invasive
101159	Ventilator, Non invasive Ventilator-Infant, Paediatric
101161	Water Treatment for Autoclave CSSD
101101	Biochemistry
102101	Analyser, Chemistry, Automatic with ISE
102101	Centrifuge
102102	Fully Automated Bio-Chemistry Analyser
102104	Fully Automated Discrete Random Access Chemistry Analyser with ISE
102105	Ion Chromatograph
102106	Laboratory Information Management System (LIMS)
102107	On-line Pathogen Gene Sequence Detection & Quantitation System through Laser Excitation
102108	PCR Thermocycler
102109	
102103	l Semi-Automated Bio-Chemistry Analyser
102110	Semi-Automated Bio-Chemistry Analyser Spectrophotometer Visible, Single Beam
102110	Spectrophotometer Visible, Single Beam
102111	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam
102111 102112	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System
102111 102112 103	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System Biotechnology
102111 102112 103 103101	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System Biotechnology Blotting Apparatus
102111 102112 103 103101 103102	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System Biotechnology Blotting Apparatus Deep Freezer (- 20 deg. C) High Volume
102111 102112 103 103101	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System Biotechnology Blotting Apparatus
102111 102112 103 103101 103102 103103 103104	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System Biotechnology Blotting Apparatus Deep Freezer (- 20 deg. C) High Volume Electronic Balance (High End Analytical) Electronic Balance
102111 102112 103 103101 103102 103103	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System Biotechnology Blotting Apparatus Deep Freezer (- 20 deg. C) High Volume Electronic Balance (High End Analytical)
102111 102112 103 103101 103102 103103 103104 103105	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System Biotechnology Blotting Apparatus Deep Freezer (- 20 deg. C) High Volume Electronic Balance (High End Analytical) Electrophoresis-Mini Dual Vertical with Compatible Power Pack and Other Accessories Electrophoresis-Submarine with Compatible Power Pack and Other Accessories
102111 102112 103 103101 103102 103103 103104 103105 103106	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System Biotechnology Blotting Apparatus Deep Freezer (- 20 deg. C) High Volume Electronic Balance (High End Analytical) Electrophoresis-Mini Dual Vertical with Compatible Power Pack and Other Accessories
102111 102112 103 103101 103102 103103 103104 103105 103106 103107	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System Biotechnology Blotting Apparatus Deep Freezer (- 20 deg. C) High Volume Electronic Balance (High End Analytical) Electronic Balance Electrophoresis-Mini Dual Vertical with Compatible Power Pack and Other Accessories Electrophoresis-Submarine with Compatible Power Pack and Other Accessories Gel Documentation System Incubator
102111 102112 103 103101 103102 103103 103104 103105 103106 103107 103108	Spectrophotometer Visible, Single Beam UV-Visible Spectrophotometer, Dual Beam Vacuum Concentration System Biotechnology Blotting Apparatus Deep Freezer (- 20 deg. C) High Volume Electronic Balance (High End Analytical) Electronic Balance Electrophoresis-Mini Dual Vertical with Compatible Power Pack and Other Accessories Electrophoresis-Submarine with Compatible Power Pack and Other Accessories Gel Documentation System

103111	PCR System, Real Time
103112	Vacuum Concentrator cum Freeze-drying System
103113	Vortex Mixer
104	Blood Bank
104101	Automated Blood Component Extractor
104102	Automatic Micro Plate Washer
104103	Blood Bank Refrigerator (300 bags)
104104	Blood Bank Refrigerator
104105	Blood Carrier (Small)
104106	Blood Cell Separator-Apheresis Machine
104107	Blood Cell Washing System
104108	Blood Mixer and Collector
104109	Centrifuge (table top-small size)
104110	Centrifuge, Micro Plate
104111	Cleaning System, Ultrasonic (Multistage)
104112	Cold Box, Large for Blood Bank
104113	Cold Box, Small for Blood Bank
104114	Couch, Blood Donor
104115	Electronic Centrifuge Counter Balance
104116	ELISA Auto Analyser
104117	ELISA Incubator
104118	ELISA Reader with Printer
104119	ELISA Washer
104120	Freezer, Laboratory, Upright, Low (-20 °C)
104121	Freezer, Laboratory, Upright, Ultra Low (-80 ° C)
104122	Micro Typing System for Blood Grouping, Cross Matching, Antibody Typing
104123	Micropipettes for Elisa testing
104124	Micropipettes, Mechanical
104125	Mobile Refrigerated Transportation Box
104126	Plasma Extractor, Manual (Plasma Separation Stand)
104127	Platelet Agitator with Incubator (10 to 12 platelet bags)
104128	Platelet Agitator with Incubator (48 platelet bags)
104129	Platelet Agitator with Incubator (Large, 96 platelet bags)
104130	Portable Tube Sealer
104131	Refrigerated Centrifuge (Blood Component Separator)
104132	Rotator, Blood Specimen
104133	Scale, Blood Compo
104134	Scale, Digital
104135	Shaker, Micro Plate
104136	Stripper for Blood Bags
104137	VDRL Shaker
105	Burns and Plastic Surgery
105101	Mobile Wash Trolley
105102	Wash Tub
105103	Dermatome

105104	Micromotor System
	Micromotor System
105105	Multi Parameter Monitor
105106	NIBP Vital Signs Monitor
105107	Operating Microscope with CCD Camera
105108	Operating Microscope
105109	Radiant Patient Warmer
105110	Radio Frequency Surgical Unit
105111	Skin Graft Storage Refrigerator
105112	Watson Modification of Skin Grafting Knife
106	Cardiology & CTVS
106101	Pleura Videoscope
106102	Ambulatory Blood Pressure Monitor
106103	Autoclave, Rapid
106104	Automated External Defibrillator (AED)
106105	CCU with Central Station (14 Beds)
106106	Compressor, Medical Air
106107	Defibrillator (Manual)
106108	Defibrillator (with Monitor)
106109	Digital ECG Machine
106110	ECG Machine (3 Channel)
106111	ECG Machine with Interpretation (12 Channel)
106112	ECG Machine, Portable (12 Channel)
106113	Echocardiography System, Colour Doppler
106114	Heart Lung Machine
106115	Monitor, Bedside
106116	Monitor, Holter
106117	Treadmill Stress Test System
107	Cold Chain & Refrigeration Equipment
107101	ATS system for WIC WIF
107102	Cold Box, large long range (20I)
107103	Cold Box, large long range
107104	Cold Box, large short range (15l)
107105	Cold Box, large short range (8I)
107106	Cold Box, long range (6.5 -12 litres)
107107	Cold Box, small long range (10l)
107108	Cold Box, small long range (6 litres)
107109	Cold Box, small short range (5 litres)
107110	Cold goog Walk in Type (3-5m2)
107111	Cold Poom, Walk in Type (35m3)
107112	Cold Room, Walk-in Type (10m³)
107113	Deep Freezer Chest Type, (160-190 litres)
107114	Deep Freezer, Chest Type, (240-260 litres)
107115	Freezer (100-110 litres)
107116	Freezer (170-180 litres)
107117	Freezer (240-250 litres)

107118	Freezer (280-300 litres)
107119	Freezer, Chest (Big), Absorption type (Kerosene, Electric operated)
107119	Freezer, Chest (Big), Absorption type (Reroseile, Electric operated)
107121	Freezer, Combined Vaccine & Icepack (Large), Absorption type (Kerosene & Electric operated)
107122	Freezer, Combined Vaccine & Icepack (Large), Absorption type (LPG & Electric operated)
10/122	Freezer, Combined Vaccine & Icepack (Edige), Absorption type (Er d & Electric Operated)
107123	operated)
107124	Freezer, Combined Vaccine & Icepack (Medium), Absorption type (LPG & Electric operated)
107125	Freezer, Combined Vaccine & Icepack, Chest (Large), compression type
107126	Freezer, Icepack, Chest (Large), Compression type
107127	Freezer, Icepack, Upright, Compression type
107128	Freezer, Vaccine & Icepack Chest (250I)
107129	Freezer, Vaccine & Icepack Chest (80I)
107130	Gamow Bag
107131	Hub Cutters
107132	Ice Flaker Machine
107133	Ice Lined Refrigerator (ILR), Single Compartment, (195-220 litres)
107134	Icepack (0.4I)
107135	Refrigerator and Freezer, Battery Solar Powered (Big)
107136	Refrigerator and Freezer, Battery Solar Powered
107137	Refrigerator and Icepack Freezer-Absorption Type (110 litres)
107138	Refrigerator and Icepack Freezer-Absorption Type (170 litres)
107139	Refrigerator for Reagents (300I)
107140	Refrigerator with Freezing Compartment (160I)
107141	Refrigerator with Freezing Compartment (220I)
107142	Refrigerator, Ice Lined (130-150 litres)
107143	Refrigerator, Ice Lined (210-220 litres)
107144	Refrigerator, Ice Lined (50-60 litres)
107145	Refrigerator, Ice Lined (Large)
107146	Refrigerator, Ice Lined and Icepack Freezer (270-280 litres)
107147	Refrigerator, Ice Lined with Deep Freezer, Big
107148	Refrigerator, Ice Lined, Small
107149	Refrigerator
107150	Single Door Access Control Unit for WIC WIF
107151	Syringe, 0.1ml AD
107152	Syringe, 0.5ml AD
107153	Syringe, Mixing, 5ml
107154	Thermometer, Alcohol Stem
107155	Truck, Refrigerated (Large)
107156	Truck, Refrigerated (Small)
107157	Vaccine Carrier (2.6l)
107158	Vaccine Carrier (2I)
107159	Vaccine Carrier, Long Range (0.9I)
107160	Vaccine Carrier-large (1-2I)
107161	Vaccine Carrier-Long Range

107163	Varian Definition to Absorb to the Wanton Control of Co
107162	Vaccine Refrigerator, Absorption type (Kerosene & Electric operated) (160-2001)
107163	Vaccine Refrigerator, Absorption type (LPG & Electric operated) (160-200l)
107164	Vaccine Refrigerator, Absorption type (LPG & Electric operated) (250-300l)
107165	Vaccines Refrigerator, Absorption type (Kerosene & Electric operated) (250-300l)
107166	Voltage Regulator for Refrigerators
107167	Walk-in Freezer
107168	Wireless Data logging System for Monitoring of Temperatures at vaccine storage centres
107169	Ice Lined Refrigerator (ILR) [Medium size, Long Holdover] (CHD)
107170	Ice Lined Refrigerator (ILR) [Large size, Long Holdover] (CHD)
107171	Ice Lined Refrigerator (ILR) [Short Holdover](CHD)
107172	Ice Lined Refrigerator (ILR) [Double compartment, Short Holdover](CHD)
107173	Ice Lined Refrigerator (ILR) [Short Holdover] (CHD)
107174	Refrigerator and Freezer, Solar Powered with Batteries (CHD)
107175	Refrigerator, Solar Powered without Batteries [Solar Direct Drive] (CHD)
107176	Ice Pack Freezers (CHD)
107177	Freezer, Chest 240L (CHD)
107178	Freezer, Chest 160L. (CHD)
107179	Cold Room, Walk-in Type (Up to 10m3 Gross Volume - Single phase)(CHD)
107180	Cold Room, Walk-in Type (Up to 10m3 Gross Volume - Three Phase) (CHD)
107181	Cold room, Walk In Type [Above 10m3 Gross Volume] (CHD)
107182	Walk-in Freezer [Above 10m3](CHD)
107183	Generator Set Diesel 5 KVA, Single Phase (CHD)
107184	Generator Set Diesel [Up to 15 KVA] Three Phase
107185	Cold Box - Large (Up to 20I) [Short range](CHD)
107186	Cold Box - Large (Above 20I) [Long range](CHD)
107187	Vaccine Carrier - Large [Minimum 1.4I] (CHD)
107188	Vaccine Carrier - Extra Large [Minimum 2.4I](CHD)
107189	Icepack (0.3I) (CHD)
107190	Icepack [0.4l](CHD)
107191	Icepack [0.6l](CHD)
108	CSSD
108101	Autoclave, Horizontal, Double Door, 1000 litres
108102	Autoclave, Horizontal, Double Door, 600 litres
108103	Closed Transport Trolley for CSSD
108104	Control & Packaging Table with Two Shelves
108105	Drying Cabinet
108106	Gauze Cutting Machine
108107	Heat Sealing Machine
108108	Height Adjustable Transport Trolleys for CSSD
108109	Linen Fold Table for CSSD
108110	Spray Gun
108111	Storage Cabinet for CSSD
108112	Table Top Steriliser, 20-25 litres
108113	Ultrasonic Cleaner, 80 litres
108114	Ultrasonic Cleaner
, <u></u>	

108115	Washer Disinfector
109	Dental & Dental Surgery
109101	Autoclave (Dental-High End)
109102	Binocular Microscope
109103	Cryosurgery Unit
109104	Dental Chair-Basic
109105	Dental Chair-High End
109106	Dental Chair-Medium
109107	Dental Engine (Micromotor)
109108	Dental Handpieces Cleaning System
109109	Dental Light Cure Unit
109110	Dental Scaler
109111	Dental X-ray Machine
109112	Digital SLR Camera with Photo Printer
109113	Distillation Plant
109114	Electrosurgical Unit for Dental
109115	Glass Beads Sterilizer
109116	High Speed Drill and Low Speed Drill
109117	Intra Oral Camera
109118	Intra Oral X-Ray Machine
109119	Needle Destroyer
109120	Operating Loupes
109121	PANORAMIC and CEPHALOMETRIC X-RAY EQUIPMENT (With Digital Imaging)
109122	PANORAMIC and CEPHALOMETRIC X-RAY EQUIPMENT
109123	RVG Sensor System
109124	Transmandibular Joint Endoscopy Equipment for Dental
109125	Dental Amalgamator, Automatic
109126	Dental Chair with Dental Amalgamator
109127	Dental Chair
109128	Dental Instruments Set
109129	Dental X-ray Film Processor, Automatic
109130	Iontophoresis for Dental
109131	Lead Screen with Leaded Glass Window
110	Dermatology & STD
110101	CO2 Laser (for Resurfacing)
110102	Combined Laser and Pulsed Light System
110103	Dark Field cum Bright Field Binocular Microscope (Wide Field)
110104	DERMAJET
110105	DERMASCOPE
110106	ER-Yag Laser (for Resurfacing)
110107	Excimer System (for Psoriasis)
110108	Iontophoresis Machines
110109	Liquid Nitrogen Cryosurgical System
110110	Long Pulsed ND-Yag Laser
110111	Magnifier with Built in Light

110112	MICRODERMA ABRADER
110112	O.T. Table
110113	Operating Binocular Magnifier
110114	Pulsed Dye Laser System (for Vascular Treatments)
110113	Q Switched Nd-Yag Laser System with Blending Facilities
110117	Radio Frequency Surgical Unit
110117	Targeted Phototherapy Unit
110118	Whole Body Combined UV Therapy Unit
110113	Whole Body Narrow Band Phototherapy Unit
110120	Woods Lamp
111	Diagnostic Equipment
111101	Sphygmomanometer (BP Apparatus), Digital
111102	Colonoscope, Fibreoptic
111103	Cuff, Children and Baby for Handheld Sphygmomanometer
111104	ENT Microdrilling System
111105	ERCP Scope (Endoscopic Retrograde Cholangiopancreatography)
	ERCP Scope, Therapeutic (Endoscopic Retrograde Cholangiopancreatography), Adult &
111106	Paediatric
111107	Gastro, Duodeno and Colonoscope with Camera System & LED Light Source
111108	Gastro, Duodeno and Colonoscope with Camera System & Xenon Light Source
111109	Hammer, Reflex
111110	Otoacoustic Emission (Screening unit) OAE (DP and TE)
111111	Sphygmomanometer (Mobile Type on Stand)
111112	Xenon Light Source
112	Endocrinology
112101	ABI,TBI Vascular Doppler
112102	Cardiac Autonomic Neuropathy Analyser-High End
112103	Cardiac Autonomic Neuropathy Analyser
112104	Dual Energy X-Ray Absorptiometry Densitometer
112105	Medical Pedography
112106	Micro Osmometer
112107	Neuropathy Analyser
112108	Quantitative Ultrasound (Osteoporosis Screening)
112109	Sensitometer -VPT (Vibration Perception Threshold)
112110	Thermometry Hot and Cold
112111	Vascular Doppler
113	ENT
113101	BERA with ECHOG
113102	Drill, Micromotor (ENT)
113103	Endoscope, ENT
113104	Halogen Cold Light Fountain
113105	Head Light, Fibre Optic with Cold Light Fountain
113106	Instruments Set, ENT (Version I)
113107	Instruments Set, ENT (Version II)
113108	Laryngoscope, Magnifying Rigid (with Light Source)

113109	Microdebrider
113110	Operating Microscope, ENT (with Camera and Video Recording)
113111	Otoscope Set
113112	Pure Tone Audiometer, Diagnostic (Compatible with PC)
113113	Pure Tone Audiometer, Diagnostic
113114	Speculum, Aural
113115	Speculum, Nasal (Paediatric)
113116	Stimulator, Facial Nerve
113117	Tongue Depressor, Disposable
113118	Tongue Depressor, Reusable
113119	Treatment unit for ENT
113120	Tympanometer
114	Food Lab Equipment
114101	Autoclave (Vertical Model)
114102	Automatic Flash Point Apparatus (Penske Martin) Closed Cup Type with Auto Sampler
114103	Automatic Pipettes Washer
114104	Battery-Powered Digital Micrometre with LCD
114105	Binocular Microscope Compound
114106	Bio Safety Cabinets-Class-II
114107	Blood Culture System with Mycobacterium Culture
114108	Centrifuge Machine
114109	Computer Controlled Universal Material Testing Machine (Tensilometer)
114110	Conductivity Meter
114111	Differential Thermal Analyser
114112	Digital Flame Photometer
114113	Digital Refractometer
114114	Digital Tele Thermometer
114115	Digital Thermometer
114116	Disintegration Test Machine
114117	Dissolution Test Apparatus with Auto Sampler
114118	DNA Sequencer, Fully Automated Four-capillary
114119	Double Beam Spectrophotometer UV-Visible(Food Lab)
114120	ESR Analyser
114121	Flash Point Tester
114122	Flourimeter
114123	Friability Test Machine
114124	FTIR Spectrophotometer
114125	Fully Automated Clinical Chemistry Analyser
114126	Fully Automated Lovibond
114127	Gas Liquid Chromatography
114128	Handheld Particulate Counters
114129	Heating Mantels
114130	Horizontal Autoclave (Circular)
114131	Hot Plate
114132	HPLC System

114133	HPTLC System
114134	Image Analyser
114135	Inductively Coupled Plasma Emission Mass Spectrometer
114136	Karl Fisher Titrator
114137	Kjeldahl Digestion Units
114138	Laboratory Blender
114139	Laboratory Dehumidifier
114140	Laminar Air Flow
114141	Liquid Chromatography System
114142	Liquid Particle Counter
114143	Magnetic Stirrer
114144	Melting Point Apparatus
114145	Mercury Analyser
114146	Microtome
114147	Microwave Digestion Unit
114148	Moisture Balance
114149	Nephelo Turbidity Meter
114150	Neubauer Counting Chamber
114151	Nitrogen Analyser
114152	Nitrogen Generator, Zero Air Generator and Hydrogen Generator
114153	Nuclear Magnetic Resonance
114154	Nutritional Scale
114155	Original Gerber Centrifuge
114156	Osmometer
114157	Paper Electrophoresis Apparatus
114158	PCR Thermocycler
114159	Polari-meter with Sodium Lamp
114160	Profile Projector
114161	Rectangular Muffle Furnace (Electric)
114162	Refractometer
114163	Rotary Vacuum Evaporator System
114164	Sieves Shaker
114165	Sonicator
114166	Soxhlet Extraction Units
114167	Spectrophoto-fluorometers
114168	Tablet Hardness Test Machine
114169	Titrator, Automatic
114170	UV Cabinet with Long and Short Wave Length
114171	Viscometer
114172	Window Mounted Air Pressure Modules
115	Forensic Medicine Equipment
115101	Autopsy Protection Equipment for HIV Cases
115102	Autopsy Saw (Bone Cutting) with Blades
115103	Autopsy Table-Pedestal Ventilated- Stationary
115104	Body Storage Racks Cantilevered (4-Tier)

115105	Body Trays for Walk in Cold Storage
115105	Dead Body Autopsy Floor Scale
115107	Dead Body Transport Carrier
115107	Deep Freezers, 250-300L
115109	Forensic Evidence Drying Cabinet Marting Chamber 2 Radio
115110	Mortuary Chamber-2 Body
115111	Odour Control System
115112	Suspended Autopsy Lights
116	General Supplies
116101	Basin, Kidney, Polypropylene
116102	Basin, Kidney, Stainless Steel
116103	Bed Pan (female)
116104	Bioelectric Impedance Body Composition Analyser
116105	Body Mass Index (BMI), Calculator
116106	Bottle, Plastic (1L)
116107	Bottle, Plastic (200-350ml)
116108	Bowl, Round, Polypropylene
116109	Bowl, Round, Stainless Steel (180ml)
116110	Bowl, Round, Stainless Steel (4L)
116111	Breast Pump (Manual)
116112	Diagnostic Kits, Water and Ailment
116113	Digital Hygrometer
116114	Dipsticks, Laboratory
116115	Endotracheal Tube connection set for ET tubes
116116	Endo Tracheal Tube Set
116117	Face Visor
116118	Flashlight, Pre-focused
116119	General Waste Bin (110L)
116120	Hand Scrubber
116121	Head Light
116122	Jar, Cheatle Forceps
116123	Jar, Forceps
116124	Jar, Thermometer
116125	Laryngoscope Set (MacIntosh or equivalent)
116126	Measuring Jug (1L)
116127	Needle & Syringe Destroyer (Electro melting type)
116128	Needle & Syringe Destroyer (Manual type)
116129	Receptacle, Waste (20L)
116130	Scale, Analogue Adult Weighing (Bathroom Type)
116131	Scale, Electronic Adult Weighing (Platform Type)
116132	Scale, Mechanical Infant Weighing (Pan Type)
116133	Solar Water Heating System
116134	Sphygmomanometer (BP Apparatus) child
116135	Sphygmomanometer (BP apparatus)
116136	Stethoscope

116137	Suction Machine, Electric (Surgical Aspirator)
116138	Suction Pump, Foot Operated (Aspirator)
116139	Thermal Imaging Scanner
116140	Thermometer, Analogue
116141	Thermometer, Digital
116142	Thermometer, Rectal Analogue
116143	Thermometer, Wall
117	Haematology
117101	Automatic Immuno-Haematological Micro plate Reader
117102	Cell Counter -Low End
117103	ELISA Reader (Low End)
117104	ELISA System- Automatic
117105	Flow Cytometer
117106	Fully Automated Haematology Analyser (3 Parts Differential)
117107	Fully Automated Haematology Analyser
117108	Haematology Analyser, 8 parameters
117109	HPLC Columns
117110	Liquid Nitrogen Plant- Compact
117111	Thalassemia and Haemoglobinopathy Testing Equipment
118	Histopathology
118101	Automated Immunostainer
118102	Automatic Knife Sharpener
118103	Grossing Station
118104	Tissue Embedding Centre
118105	Tissue Floatation Bath
119	HIV AIDS
119101	Automated Cell Washer
119102	Deep Freezer
119103	DI-Electric Tube Sealer
119104	HCV (ELISA) Test Kit
119105	HCV (Rapid) Test Kit
119106	HIV (ELISA) Capture Competitive Test Kits
119107	HIV (ELISA) Test Kits
119108	HIV Test Kits (Sandwich ELISA)
119109	Manual Plasma Expresser
119110	Plasma Separator (Automated)
119111	Plasma Thawing Bath
119112	Shredder
119113	Sterile Connecting Device
119114	Ultrasonic Cleaner for Lab Use
119115	Western Blot Test Kit
120	Hospital Furniture
120101	Bassinet, Baby
120102	Bed, Hospital (Plain)
120103	Bed, Hospital with Panels

120104	Bed, Hospital
120104	Bed, Infant (Baby Cot)
120105	Bed, Paediatric
120106	Benches for Patient Attendant
120108	Bowl Stand, Double Tier
120109	Bowl Stand, Single Tier
120110	Cabinet, Bedside, Locker
120111	Cabinet, Instruments
120112	Cabinet, Medicine
120113	Couch, Examination
120114	Douche Can
120115	Foot Step (Double)
120116	Foot Step (Single)
120117	General Technical Specifications of Hospital Furniture
120118	Height Measuring Stand
120119	IV Stand, Foldable
120120	IV Stand, Four Hooks
120121	IV Stand
120122	Kick Bucket
120123	Mattress, Hospital (Coir)
120124	Mattress, Hospital (PU foam)
120125	Mattress, Hospital
120126	Mayo Trolley
120127	Patient Screen
120128	Pillow
120129	Revolving Stool
120130	Step Table, Stainless Steel
120131	Stool Revolving, Ultrasound
120132	Stool, Adult Size (for patients or visitor)
120133	Stool, Revolving on Castors
120134	Stretcher, Patient with Side Rails
120135	Stretcher
120136	Table, Cleaning and Dressing
120137	Table, Dressing (for Baby)
120138	Table, Examination (Fixed Height)
120139	Table, Examination
120140	Tray, Catheter
120141	Tray, Dressing (300x200x30mm)
120142	Tray, Dressing (480x330x20mm)
120143	Tray, Instrument (225x125x50mm)
120144	Tray, Instrument (310x195x60mm)
120145	Tray, Instrument (510x380x200mm)
120146	Tray, Surgical Knife
120147	Trolley, Dirty Linen
120148	Trolley, Dressing

120149	Trolley, Emergency (Emergency Crash Cart)
120150	Trolley, Instrument
120151	Trolley, Luggage
120152	Trolley, Mayo Instrument (600x400mm)
120153	Trolley, Mayo Instrument
120154	Trolley, Mayo Table (910x500mm)
120155	Trolley, Medicine
120156	Trolley, Oxygen Cylinder (Big)
120157	Trolley, Patient
120157	Trolley, Utility
120159	Waste Bin, Pedal Operated (Stainless Steel)
120160	Wheel Chair (Fixed type)
120161	Wheel Chair (foldable)
120162	Wheel Chair
121	ICU CCU
121101	Bed, Fowler
121102	Bedside Coagulation Monitoring System
121103	Cardiac ICU Bed (Manually Operating)
121104	Deep Vein Thrombosis (DVT) Pump
121105	Intra-Aortic Balloon Pump (IABP) System
121106	Stretcher on trolley (for ICU)
121107	Ventilator, ICU (Pneumatic)
122	Immunology
122 122101	Centrifuge Refrigerated (Table Top)
122101	Centrifuge Refrigerated (Table Top)
122101 122102	Centrifuge Refrigerated (Table Top) Digital pH Meter
122101 122102 122103	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope
122101 122102 122103 122104	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser
122101 122102 122103 122104 122105	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System
122101 122102 122103 122104 122105 122106	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography
122101 122102 122103 122104 122105 122106 122107	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity)
122101 122102 122103 122104 122105 122106 122107 122108	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System
122101 122102 122103 122104 122105 122106 122107 122108 123	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items
122101 122102 122103 122104 122105 122106 122107 122108 123 123101	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items Gowns Delivery Room, Theatre (BEOC Pack) Gowns Theatre (CEOC Pack) Protective Apron Plastic (Disposable)
122101 122102 122103 122104 122105 122106 122107 122108 123 123101	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items Gowns Delivery Room, Theatre (BEOC Pack) Gowns Theatre (CEOC Pack) Protective Apron Plastic (Disposable) Protective Apron, Plastic (Reusable)
122101 122102 122103 122104 122105 122106 122107 122108 123 123101 123102 123103 123104 123105	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items Gowns Delivery Room, Theatre (BEOC Pack) Gowns Theatre (CEOC Pack) Protective Apron Plastic (Disposable) Protective Apron, Plastic (Reusable) White Apron (Full Sleeves)
122101 122102 122103 122104 122105 122106 122107 122108 123101 123102 123103 123104	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items Gowns Delivery Room, Theatre (BEOC Pack) Gowns Theatre (CEOC Pack) Protective Apron Plastic (Disposable) Protective Apron (Full Sleeves) White Apron (Half Sleeves)
122101 122102 122103 122104 122105 122106 122107 122108 123 123101 123102 123103 123104 123105 123106 124	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items Gowns Delivery Room, Theatre (BEOC Pack) Gowns Theatre (CEOC Pack) Protective Apron Plastic (Disposable) Protective Apron, Plastic (Reusable) White Apron (Full Sleeves) White Apron (Half Sleeves)
122101 122102 122103 122104 122105 122106 122107 122108 123101 123102 123103 123104 123105 123106 124	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items Gowns Delivery Room, Theatre (BEOC Pack) Gowns Theatre (CEOC Pack) Protective Apron Plastic (Disposable) Protective Apron (Full Sleeves) White Apron (Half Sleeves) Microbiology Automated Blood Culture System
122101 122102 122103 122104 122105 122106 122107 122108 123 123101 123102 123103 123104 123105 123106 124 124101	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items Gowns Delivery Room, Theatre (BEOC Pack) Gowns Theatre (CEOC Pack) Protective Apron Plastic (Disposable) Protective Apron, Plastic (Reusable) White Apron (Full Sleeves) White Apron (Half Sleeves) Microbiology Automated Blood Culture System Automated Rapid Identification System for Bacteria & Yeasts
122101 122102 122103 122104 122105 122106 122107 122108 123101 123102 123103 123104 123105 123106 124101 124102 124103	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items Gowns Delivery Room, Theatre (BEOC Pack) Gowns Theatre (CEOC Pack) Protective Apron Plastic (Disposable) Protective Apron, Plastic (Reusable) White Apron (Full Sleeves) White Apron (Half Sleeves) Microbiology Automated Blood Culture System Automated Rapid Identification System for Bacteria & Yeasts Binocular Microscope Compound
122101 122102 122103 122104 122105 122106 122107 122108 123 123101 123102 123103 123104 123105 123106 124101 124102 124103	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items Gowns Delivery Room, Theatre (BEOC Pack) Gowns Theatre (CEOC Pack) Protective Apron Plastic (Disposable) Protective Apron (Full Sleeves) White Apron (Half Sleeves) Microbiology Automated Blood Culture System Automated Rapid Identification System for Bacteria & Yeasts Binocular Microscope Compound CD-4 Counter
122101 122102 122103 122104 122105 122106 122107 122108 123101 123102 123103 123104 123105 123106 124101 124102 124103	Centrifuge Refrigerated (Table Top) Digital pH Meter Fluorescent microscope Fully Automatic Chemiluminescence Immunoassay Analyser Fully Automatic Immuno Diagnostic System Thin Layer Chromatography Water Bath (Large capacity) Water Purification System Linen Items Gowns Delivery Room, Theatre (BEOC Pack) Gowns Theatre (CEOC Pack) Protective Apron Plastic (Disposable) Protective Apron, Plastic (Reusable) White Apron (Full Sleeves) White Apron (Half Sleeves) Microbiology Automated Blood Culture System Automated Rapid Identification System for Bacteria & Yeasts Binocular Microscope Compound

124107	Hot Air Oven (Small)
124108	Incubator BOD
124109	Incubator, CO2
124110	Inverted Microscope
124111	Shaking Water Bath
124112	Steam Autoclave
125	Nephrology
125101	Automatic PD Cycler
125102	Bed weighing Scale
125103	Continuous Renal Replacement Therapy (CRRT) Machine
125104	Dialyser Re-processor
125105	Haemodialysis Chair
125106	Haemodialysis Machine with RO Plant
125107	Haemodialysis Machine
125108	Hot Water Bath for Nephrology
125109	Reverse Osmosis Unit for Haemodialysis
125110	Water Treatment System for Haemodialysis
126	Neurology
126101	Cerebral Function Monitor
126102	Doppler System, Transcranial (TCD)
126103	EEG System (32 Channel)
126104	EEG System, Video (64 Channel)
126105	EMG-NCV-EP System (4 Channel)
126106	ENMG System (4 Channel)
127	Neurosurgery
127101	Aspirator, Ultrasonic (Microneurosurgery)
127102	Craniotome, Electric
127103	Craniotome, Pneumatic
127104	Electrosurgery Unit (ESU) Surgical Diathermy or Cautery machine (Neurosurgery)
127105	Endoscope (Neurosurgery)
127106	Light, Head
127107	Light, Over Head Ceiling
127108	Microscope, Operating
127109	Radiographic Fluoroscopic System (Image Intensifier), Neurosurgery
127110	Table, Operating (Neurosurgery)
127111	Ultrasonic Coagulation and Cutting Device (Neuro and Cardiovascular Surgery)
128	Nutrition & Dietetics
128101	Kitchen Equipment-Bakery and Confectionary
128102	Kitchen Equipment-Cooking Section
128103	Kitchen Equipment-Dish Wash Area
128104	Kitchen Equipment Pot Wash Area
128105	Kitchen Equipment-Pot Wash Area
128106	Kitchen Equipment-Preparation Machine
128107 128108	Kitchen Equipment Storage Equipment
L I /X I I IX	Kitchen Equipment-Storage Equipment

128109	Kitchen Equipment-Water Station			
129	Obstetrics & Gynaecology			
129101	Bed, Delivery (Hydraulic)			
129102	Bed, Delivery (Manual)			
129103	Bed, Delivery (Motorized)			
129104	Cervical Dilator Set			
129105	Couch, Examination (Gynaecological), Electric & Mobile			
129106	Couch, Examination (Gynaecological), Mechanical			
129107	Cryosurgery Unit			
129108	Digital Video Colposcope			
129109	Doppler Foetal Heart Detector with Rechargeable Battery			
129110	Doppler Foetal Heart Detector			
129111	Foetoscope, Aluminium			
129112	Foetoscope, Plastic			
129113	Hysteroscope Set, Operative with Resectoscope (Complete System)			
129114	Laparoscope Set, Double Puncture (for Female Sterilization)			
129115	Laparoscope Set, Operative Gynaecological			
129116	Laparoscope Set, Single Puncture (for Female Sterilization)			
129117	Monitor, Cardiotocogrpah (CTG)			
129118	Monitor, Foetal, Antepartum and Intrapartum (Cardiotocography Machine)			
129119	MTP Suction Machine			
129120	Pelvimeter, Collyer type, external			
129121	Peri-Light Peri-Light			
129122	Pessarium Ring Silicon Dik			
129123	Pessarium Ring Silicon			
129124	Pessarium Ring Vinyl, PVC			
129125	Speculum, Cuscos Vaginal			
129126	Speculum, Fibre Optic Sims Vaginal (with Xenon Light Source)			
129127	Speculum, Sims Vaginal			
129128	Spot Light, Portable			
129129	Spot-Light, Portable			
129130	Table, Gynaecological Examination & Delivery, Epoxy Powder Coated Steel			
129131	Table, Gynaecological Examination & Delivery, Stainless Steel			
129132	Table, Operating Theatre (Gynaecological)			
129133	Trolley, Obstetrics Labour			
129134	Trolley, Patient Transfer			
129135	Ultrasonic Cutting and Coagulation Device (Open and Laparoscopic Surgery)			
129136	Vacuum Aspirator (MVA) sets for CAC (manual)			
129137	Vacuum Extractor Set, Electrical			
129138	Vacuum Extractor Set, Manual			
130	Ophthalmology			
130101	Anomaloscope, All Colour			
130102	Auto Lensometer			
130103	Auto Ref-Keratometer			
130104	BIO Lens, 20D Indirect			

130105	Camera, Fundus (Digital)			
130105	Camera, Fundus (Paediatric)			
130107	Contrastometer			
130107	Corneal Aesthesiometer			
130108				
130103	Corneal Topography System Dark Adaptation Spectacles			
130110	ERG-EOG-VEP System			
130111	Indirect Ophthalmoscope (LED light)			
130112	Laser, Excimer (with Customized Lasik Facility)			
130113	Microscope, Specular			
130115	Microscope. Bio with Slit Lamp			
130115	Nerve Fibre Analyser			
130117	Operating Microscope with Camera & Video Recording (Ophthalmic)			
130117	Operating Microscope, Floor Mounted (Ophthalmic)			
130119	Ophthalmic Operating Table			
130113	Ophthalmometer			
130121	Ophthalmoscope Set			
130121	Ophthalmoscope, Direct			
130123	Ophthalmoscope, Indirect			
130124	Ophthalmoscope, Video Indirect			
130125	Optical Biometer, Non-Contact			
130126	Optical Coherence Tomography			
130127	Pachymeter, Ultrasonic			
130128	Perkins, Applanation Tonometer			
130129	Phaco Machine			
130130	Phacoemulsification Machine			
130131	Photo-Slit Lamp with Applanation Tonometer			
130132	Potential Acuity Meter			
130133	Scanning Laser Photocoagulator			
130134	Schiotz Applanation Tonometer			
130135	Slit Lamp Bio Microscope			
130136	Slit Lamp, Portable Hand Held			
130137	Surgeon Chair			
130138	Tonometer, Non-Contact			
130139	Ultrasound, A and B Scans			
130140	Visual Field Analyser			
130141	Vitrectomy			
131	Orthopaedics			
131101	Arthroscope, Basic			
131102	Arthroscopy, Video			
131103	Bone Mill			
131104	Drill & Saw, Electric (Autoclaveable)			
131105	Drill Saw, Electric (Autoclaveable)			
131106	Drill, Manual Cannulated Hand			
131107	Femoral Puncture Site Compressor Device			

	en ar ar Table			
	Fracture Table (2.7)			
	Implant, Dynamic Compression Plates and Screws (3.5 mm)			
	Implant, Dynamic Compression Plates and Screws (4.5 mm)			
	Implant, Fixation of Proximal Femur Set			
	Implant, Hemi Hip Replacement Set (Unipolar)			
	Implant, Mini Fragment (Plates and Screws)			
	Implant, Modular Total Knee and Hip Replacement			
	Implant, Pedicle Fixation and Reduction System			
	Implant, Ring External Fixator System			
131117 I	Implant, Total Hip Prosthesis			
131118 I	Implant, Tubular External Fixator			
131119 I	Instrument set and Implants, K Nail			
131120 I	Instrument Set, Large Fragment			
131121 I	Instrument Set, Mini			
131122 I	Instrument Set, Small Fragment			
131123 I	Instruments for Removal of Damaged Screws			
131124 I	Intramedullary Nailing Set with Flexible Reamers			
131125 F	Plaster Cutter (Teflon Blade)			
131126 F	Plaster Cutter			
131127 F	Radiographic Fluoroscopic System (Image Intensifier), Orthopaedics			
131128 7	Table, Operating Theatre, Electro-Hydraulic (Orthopaedics)			
131129 1	Tourniquet System, Automatic			
131130 U	Ultrasonic Decalcifier System			
131131 \	Video Arthroscopy System with Xenon cold light			
132 F	Paediatrics			
132101 A	Air Asepticiser (Mobile)			
132102 A	ARI (Acute Respiratory Infections) Sound Timer			
132103 E	Bronchoscope, Fibreoptic (Paediatric)			
132104 E	Bronchoscope, Fibreoptic			
132105	Cooling-Warming System (Neonatal)			
132106 E	ECG Machine, Single Channel			
132107 I	Incubator, Servo Control			
132108 N	Measuring Mat, Baby			
132109 N	Microbilimeter			
132110 N	Monitor, Bed Side Multifunction (Paediatric)			
132111 N	Monitor, NIBP			
132112 N	Monitor, Vital Sign (Neonates-Infants)			
132113 N	Nebuliser, Baby			
132114 N	Neonatal Cooling-Warming System			
132115 N	Newborn Warmer System, Basic			
132116	Open Care System (Neonatal)			
132117 F	Phototherapy Irradiance Meter			
132118 F	Phototherapy Lamp, Fibreoptic			
132119 F	Phototherapy Unit (Double Surface)			
132120 F	Phototherapy Unit (Dr. D.S. Manandhar Type)			

132121	Phototherapy Unit (Fluorescent Tubes)			
132122	Phototherapy Unit (LED type)			
132123	Radiant Warmer with Baby Bassinet			
132124	Scale with Height Measuring (Digital)			
132125	Scale, Baby (100 gm to 25 kg)			
132126	Scale, Infant (Digital)			
132127	Scale, Infant Weighing (Pan Type)			
132128	Scale, Tubular Spring Balance (Infants)			
132129	Suction Unit, De Lee			
132130	Transport Incubator			
132131	Weighing & Height Scale, Infant (Pan type), Electronic			
133	Pathology			
133101	Auto Loading Urine Strip Analyser			
133102	Auto Stainer			
133103	Autoclave Electrical Table Top Pre-vacuum 30L			
133104	Automated Haemoglobin Variant Analyser			
133105	Automated Slide Stainers			
133106	Automatic Cell Counter			
133107	Automatic ESR Analyser			
133108	Bilirubin meter			
133109	Bio Safety Cabinet Class II Type A2			
133110	Bio Safety Cabinet Class II Type B1			
133111	Bio Safety Cabinet Class II Type B2			
133112	Centrifuge Haematocrit (75mm capillary)			
133113	Centrifuge, Desktop 12 tubes 10-15 ml			
133114	Centrifuge, Desktop 8 tubes 10-15 ml			
133115	Centrifuge, Manual			
133116	Coagulometer			
133117	Cold Plate			
133118	Colorimeter			
133119	Computer Aided Semen Analysis (CASA)			
133120	Cytocentrifuge			
133121	DLC-Counter, Manual			
133122	Electrolyte Analyser			
133123	Electrophoresis and Densitometer System			
133124	Flame photometer, Biochemistry Analysis (Nucleic acid and Proteins)			
133125	Haematocrit Centrifuge			
133126	Haemocytometer			
133127	Incubator, 30 Litres			
133128	Laminar Air Flow Bench, Vertical type			
133129	Micro Pipettes, Digital, 8 Channels			
133130	Micro Pipettes, Digital			
133131	Micropipette Set			
133132	Microtome			
133133	Mixer, Tilt Rotator			

122124	Non-investive Heaves who him Manitevines Contains			
133134	Non-invasive Haemoglobin Monitoring System			
133135	Pipette Stand			
133136	Rack, ESR			
133137	Refrigerated Micro Centrifuge			
133138	Refrigerator cum Deep Freezer			
133139	Refrigerator with Freezing Compartment Spark Free Type CFC free (200 Litres)			
133140	Rotary Microtome (Manual)			
133141	Rotator, Agglutination Test			
133142	Semi Automated ESR Analyser			
133143	Sensitive Weighing Balance, Digital			
133144	Serological Pipettes			
133145	Shaker, Orbital			
133146	Slide Filing Cabinet			
133147	Sperm Quality Analyser			
133148	Thermometer for Laboratory			
133149	Trinocular Microscope with Camera			
133150	Water Bath			
134	Physiotherapy			
134101	Ball, Medicine, Set			
134102	Ball, Therapeutic, Set (Beach Ball)			
134103	Bar, Wall			
134104	Bars, Parallel			
134105	Bath, Contrast (Electrical)			
134106	Bath, Paraffin Wax (Large & Small)			
134107	Bath, Whirl Pool (for arm, foot and leg)			
134108	Belt Sander			
134109	Bolster			
134110	Burnet Cutter (Plastic Cutter)			
134111	Cervical Traction Unit (Computerised)			
134112	Cervical Traction Unit (Wall Mount)			
134113	Cold Pack Unit			
134114	Combination Therapy Unit			
134115	Comprehensive Computerised Hand and Upper Extremity Evaluation System			
134116	Continuous Passive Motion Unit for Elbow Joint			
134117	Continuous Passive Motion Unit for Lower Limbs			
134118	Continuous Passive Motion Unit for Shoulder Joint			
134119	Continuous Passive Motion Unit for Wrist Joint			
134120	Couch, Physiotherapy (Electric)			
134121	Crawler, Adjustable Height			
134122	Cryotherapy Unit (Advanced)			
134123	Cryotherapy Unit (Basic)			
134124	Cycle Exerciser, Static			
134125	Diathermy Unit (Microwave) cum Computerized Traction Unit			
134126	Diathermy Unit, Continuous and Pulsed Short Wave			
134127	Drill Machine			

424420	TARO District Head Hell
134128	EMG Biofeedback Unit
134129	EMG NCS System, 4 Channel
134130	Exerciser Stair Case
134131	Exerciser, Arm Chest
134132	Exerciser, Grip
134133	Fret Saw Machine (Cycle type)
134134	Furnace (Oven)
134135	Goniometer (180 degree), Steel
134136	Goniometer (360 degree), Aluminium
134137	Goniometer, Finger
134138	Grinder (Bench Type)
134139	Hand Evaluation Kit
134140	Hand Exerciser Table
134141	Hand Gym Kit Board
134142	Heat Gun
134143	Hot Pack Unit
134144	Interferenctial Therapy, Mobile with Trolley
134145	Isokinetic System, Computerised
134146	Jig Saw
134147	Laser Therapy Unit (Scanning)
134148	Laser Therapy Unit, Deep Tissue (Portable)
134149	Light Therapy, Infrared LED
134150	Magnetic Therapy Unit with Patient Couch
134151	Moist Heat Therapy Unit (Hydrocollator Unit)
134152	Multiexercise Therapy Unit
134153	Muscle Stimulator, Electrical
134154	Pegs
134155	Rocker Balance Board
134156	Router Machine
134157	Rowing Machine
134158	Sanding Board
134159	Sewing Machine
134160	Shoe Finishing Machine
134161	Shoulder Abduction Ladder Bar
134162	Shoulder Pulley Set (Wall Mounting)
134163	Shoulder Wheel
134164	Standing Frame
134165	Table, Quadriceps
134166	Table, Tilt (Electrical)
134167	Table, Tilt (Manual)
134168	Traction Bed
134169	Traction Unit, Lumbar with couch
134170	Transcutaneous Electrical Nerve Stimulator (TENS), Dual Channel
134171	Transcutaneous Electrical Nerve Stimulator (TENS), Pocket Size
134172	Transcutaneous Electrical Nerve Stimulator (TENS)

134173	Treadmill (T.M.T) Jogger			
134174	Ultrasound Therapy Unit (Single Head)			
134175	Ultrasound Therapy Unit (Two Heads)			
134176	Vestibulator (Swing System)			
134177	Wheel Chair (Hi-Tech)			
135	Plant Machinery and Testing Equipment			
135101	100 KVA Voltage Stabiliser			
135102	250 KVA Voltage Stabiliser			
135103	Generator Set Diesel 10KVA, Single Phase			
135104	Generator Set Diesel 15KVA, Three Phase			
135105	Generator Set Diesel 40KVA, Three Phase			
135106	Generator Set Diesel 50KVA, Three Phase			
135107	Generator Set Diesel 5KVA, 3 Phase			
135108	Maintenance Tool Set			
135109	Mini Generator Set 1KVA			
135110	Test Equipment Anaesthesia Unit Calibration			
135111	Test Equipment Digital Oscilloscope			
135112	Test Equipment mAs Meter (for X-ray testing)			
135113	Test Equipment MOhm-meter (Insulation Test)			
136	Psychiatry			
136101	ECT Machine, Bidirectional Square Wave (fixed)			
136102	ECT machine, Bidirectional Square Wave			
136103	ECT Machine, Computerised Brief Pulse			
136104	List of Psychological Tests & Apparatus			
136105	Psychological Testing and Management Equipment			
136106	Respiration Biofeedback Trainer			
136107	Strength Evaluation System (Electronic)			
137	Radiology			
137101	Digital Mammography System with Biopsy			
137102	LED View Box (Double Film)			
137103	LED View Box (Single Film)			
137104	Portable X-ray Machine, 100mA			
137105	Analogue Mammography System			
137106	B & W Ultrasound Machine with Single Probe			
127107	Colour Doppler Ultrasound Machine with Convex, Linear, Endocavity and Cardiac Multi-			
137107	frequency Probes			
137108	Computed Radiography System			
137109	CT Scan 4 Slice			
137110	CT Scan & Slice			
137111	CT Scan Build Slice			
137112	CT Scan Dual Slice			
137113	Digital Radiography System			
137114	Flat Panel Digital Subtraction Angiography System with Prossure Injector including Assessories			
137115	Flat Panel Digital Subtraction Angiography System with Pressure Injector including Accessories			
137116	Heavy Duty Fully Automatic Film Processor			

127117	High-End Colour Doppler Ultrasound Machine with Convex, Linear and Endocavity Multi-			
137117	frequency Probes			
137118	Light Weight Hand Carry Ultrasound Machine Middle range Colour Depoler Ultrasound Machine with convey linear and Endosavity multi-			
137119	Middle range Colour Doppler Ultrasound Machine with convex, linear and Endocavity multi- frequency probes			
137120	Mobile C-Arm X-ray, 5KW			
137121	Mobile C-Arm X-ray			
137122	Motorised high frequency portable digital X-ray (30KW)			
137123	Motorised high frequency portable digital X-ray (40KW)			
137124	MRI, 1.5T			
137125	Multi Slice Spiral CT Scanner-128 Slice			
137126	Multi Slice Spiral CT Scanner-32-40 Slice			
137127	Multi Slice Spiral CT Scanner-64 Slice			
137128	PET CT Scan with Medical Cyclotron			
137129	PET CT Scan			
137130	Three Fold Lead Protective Barrier			
137131	Ultrasound Machine with Single Probe			
137132	USG Portable Colour Doppler with 3 Probes			
137133	X-ray Dark Room Accessories			
137134	X-ray Film Processor, Automatic, Floor Standing			
137135	X-ray Film Processor, Automatic			
137136	X-Ray Machine 100 mA with Voltage Stabilizer			
137137	X-ray machine 300mA			
137138	X-Ray Machine 500 mA with CR System			
137139	X-Ray Machine 500 mA, Fixed DR with Film Printer			
137140	X-Ray Machine 500 mA, Fixed Height Table			
137141	X-Ray Machine 500 mA			
137142	X-ray machine Mobile, 30KW			
137143	X-ray machine Mobile			
138	Radiotherapy			
138101	Linear Accelerator, Low Energy			
138102	Linear Accelerator-High Energy			
139	Respiratory Medicine			
139101	Bag Valve Mask (BVM) (Child to Adult)			
139102	Bag Valve Mask (BVM) (Neonate to Child)			
139103	Bag Valve Mask (BVM)			
139104	BIPAP (Bi-level Positive Airway Pressure)			
139105	Bronchoscope, Rigid			
139106	Bronchoscope, Video (Slimmer Type) Paediatric			
139107	Bronchoscope, Video (Therapeutic) Adult			
139108	Cardiopulmonary Exercise System (CPT)			
139109	Cardiovascular Hemodynamic Monitor, Continuous Real Time			
139110	Continuous Arterial Gas Monitoring System			
139111	EMG system (2 Channel with EP Recorders)			
139112	Endotracheal Tube Connection Set for ET Tubes			

139113	Endotracheal Tube Set			
139114	Laryngoscope Set (Children & Adult)			
139115				
139116	Laryngoscope Set (McIntosh or equivalent)			
139117	Lung Volume and Diffusion Apparatus ((Pulmonary Function Analyser-Advanced) Manikin			
139117				
	Nebuliser Ultracenia Type Compressor			
139119	Nebuliser, Ultrasonic Type Nebuliser			
139120 139121				
	Oxygen Concentrator with Flow Splitter			
139122	Oxygen Hood (Dr. D.S. Manandhar type)			
139123	Oxygen Hood			
139124	Peak Flow Meter			
139125	Polysomnography System			
139126	Pulmonary Function Analyser (Advanced)			
139127	Pulmonary Function Analyser (Basic)			
139128	Pulse Oxymeter (Spot check)			
139129	Pulse Oxymeter with ECG Monitor			
139130	Pulse Oxymeter			
139131	Resuscitation Set, Emergency			
139132	Thoracic Videoscopy System			
139133	Ventilator, ICU (Infant to Adult)			
140	Surgery			
140101	Diathermy Machine (Electrosurgical) 300W with Vessel Sealing			
140102	Electrosurgical Unit (Diathermy Machine) 200W			
140103	Electrosurgical Unit (Diathermy Machine) 300W			
140104	Electrosurgical Unit (Diathermy Machine) with Argon Beam Coagulation			
140105	Instrument Set, Laparoscopic			
140106	Laparoscopic Surgery Set with Camera			
140107	Light, Examination, Mobile (Halogen 50W)			
140108	Light, Examination, Mobile (Halogen, 20W)			
140109	Light, Examination, Mobile (LED)			
140110	Light, Examination, Mobile (Multi-Bulbs Light Head)			
140111	Light, Operation Theatre, Ceiling (2 Dome, Halogen)			
140112	Light, Operation Theatre, Ceiling (3 Dome, Halogen)			
140113	Light, Operation Theatre, Mobile			
140114	Operating Table			
140115	Operation Theatre Light, LED with Camera			
140116	Operation Theatre Light, LED			
140117	Steriliser, High Speed			
140118	Suction Machine (Aspirator) Foot Operated (2 Jars)			
140119	Suction Machine (Aspirator) Mains and Battery Powered			
140120	Table, Operating (Hydraulic)			
140121	Ultrasonic Coagulation and Cutting Device (General and Laparoscopic Surgery)			
141	Surgical Instruments			
141	Surgical Instruments			

141102	Surgical Instruments	
142	TB, DST & Culture Laboratory	
142101	Autoclave	
142102	Binocular Microscope (LED)	
142103	Bio Safety Cabinet Class II Type A2	
142104	Bunsen Burner, Regulator, Gas (set)	
142105	Centrifuge Refrigerated, Floor Standing	
142106	Coagulators Inspissator	
142107	De-ionised Water Plant	
142108	Distillation Plant	
142109	Distillation Unit (2 litres per hour)	
142110	Double Distillation Plant	
142111	Fluorescent Microscope (LED)	
142112	Fumigator	
142113	GT-Blot	
142114	Hot Air Oven	
142115	Hot Plate with Magnetic Stirrer	
142116	Hybridization Oven	
142117	Incubator (Four Doors)	
142118	Incubator	
142119	Liquid Culture for Mycobacterium Tuberculosis	
142120	Magnet Separator	
142121	McCartney Bottle Washer	
142122	PCR Machine-48 well format	
142123	PCR System, Real Time-48 well format	
142124	PCR Workstation	
142125	Precision Balance	
142126	Twin Cubator	
142127	Ultrasonic Bath	
142128	Vortex Mixer	
142129	Water Bath with Lid	
143	Transportation Equipment	
143101	Trolley, Emergency Patient	
143102	Van, Insulated, 4 Wheel Drive	
143103	Van, Insulated, 2 Wheel Drive	
143104	Ventilator, Portable	
144	Urology	
144101	Bicarbonate Mixer	
144102	Cysto-Nephroscope, Flexible (High End)	
144103	Cysto-Nephroscope, Flexible (Low End)	
144104	Dialysis Consumables	
144105	Dialyzer Reprocessing System	
144106	Endo-vision System with PCN set	
144107	Holmium Laser Generator	
144108	Laparoscopic Instruments Set with Adult Cystoscope and Resectoscope	

144109	Lithotripter, Extracorporeal Shockwave (E S W L) Low End
144110	Lithotripter, Extracorporeal Shockwave (E.S.W.L.) High End
144111	Lithotripter, Intracorporeal, Ultrasonic & Pneumatic combined
144112	Radiographic Fluoroscopic System (Image Intensifier), Urological
144113	Table, O.T. (Urology)
144114	Uretero-Renoscope (Semi Rigid)
144115	Uretero-Renoscope, Flexible (URS)
144116	Urodynamic Measurement System 12 Channels
144117	Urodynamic Measurement System 6 Channels
144118	Uroflowmetry Machine, Wireless
144119	Uroflowmetry Machine
145	Waste Management
145101	Biomedical Waste Incinerator, 100kg
145102	Biomedical Waste Incinerator, 50kg
145103	Effluent Treatment Plant
145104	Hub Cutters
145105	Needle Destroyers
145106	Puncture Proof Container

Annex 4: Coding of Standard Specifications of Drugs

200000 Pharmaceuticals

200000	Pharmaceuticals	
Code	Product Name	Dosage Form
201	Anaesthetic	
201101	Lignocaine 1% , 30 ml	Injectable
201102	Lignocaine 2% , 30 ml	Injectable
201103	Lignocaine 1% with Adrenaline 1% , 30 ml	Injectable
202	Medicines For Pain and Palliative Care	
202101	Aspirin Tablet 300 mg(Acetylsalicylic Acid)	Tablet
202102	Diclofenac Injection 25 mg/ml, 3ml	Injectable
202103	Ibuprofen Tablet 400 mg	Tablet
202104	Indomethacin Capsule 25 mg	Capsule
202105	Indomethacin Capsule 50 mg	Capsule
202106	Paracetamol Tablet 500 mg	Tablet
202107	Paracetamol Infusion 10mg/ml - 100ml bottle	Injectable
202108	Paracetamol Suspension 125 mg/5ml	Liquid
202109	Clove Oil 5 ml	Liquid
203	Anti-Allergic and Medicines used in Anaphylaxis	
203101	Adrenaline Injection 1:1000	Injectable
203102	Cetirizine Hydrochloride Tablet 10 mg	Tablet
203103	Cetirizine Hydrochloride Syrup 5 mg/5ml	Syrup
203104	Chlorpheniramine Maleate Tablet 4 mg	Tablet
203105	Dexamethasone Injection 4 mg/ml, 2ml	Injectable
203106	Hydrocortisone Injection 100 mg/vial, 10ml	Injectable
203107	Pheniramine Maleate 22.75mg/ml, 2 ml	Injectable
203108	Prednisolone Tablet 5 mg	Tablet
203109	Prednisolone Tablet 10 mg	Tablet
204	Antidotes and Other Substances used in Poison	
204101	Activated Charcol 10 G	Powder
204102	Atropine Injection 0.6 mg/ml, 1 ml	Injectable
204103	Atropine Injection 0.6 mg/ml, 10 ml	Injectable
204104	Pralidoxime chloride Injection 1 gm	Injectable
205	Anticonvulsants and Antiepileptics	
205101	Carbamazepine Tablet 200 mg	Tablet
205102	Carbamazepine Tablet 400 mg	Tablet
205103	Diazepam Injection 5 mg/ml, 2ml	Injectable
205104	Magnesium Suphate 500 mg/ml, 2ml	Injectable
205105	Phenobarbitone Tablet 30 mg	Tablet
206	Intestinal Anti-Helminthic Medicines	
206101	Albendazole Chewable Tablet 400 mg	Tablet
207	Antibacterial Medicines	
207101	Amoxicillin 125 mg DT	Tablet
207102	Amoxicillin 250 mg DT	Tablet

207103	Amoxicillin Capsule 500 mg	Capsule
207104	Ampicillin injection 500 mg/Vials	Injectable
207105	Azithromycin Tablet 250 mg	Tablet
207106	Azithromycin Tablet 500 mg	Tablet
207107	Ceftriaxone Powder for Injection 1 G	Injectable
207108	Chloramphenicol Capsule 250 mg	Capsule
207109	Chloramphenicol Capsule 500 mg	Capsule
207110	Ciprofloxacin Tablet 250 mg	Tablet
207111	Ciprofloxacin Tablet 500 mg	Tablet
207112	Ciprofloxacin Infusion 200 mg/100 ml	Injectable
207113	Cloxacillin Capsule 250 mg	Capsule
207113	Cloxacillin Capsule 500 mg	Capsule
207115	Cloxacillin Powder for Oral Liquid 125 mg/5ml	Syrup
207116	Doxycycline Capsule 100 mg	Capsule
207117	Gentamycin Injection 80 mg/2ml	Injectable
207117	Metronidazole Tablet 400 mg	Tablet
207119	Metronidazole Suspension 200 mg/5ml - 60 ml	Suspension
207113	Metronidazole injection 500 mg/100ml	Injectable
207120	Sulfamethoxazole 100 mg + Trimethoprim 20 mg	Tablet
207121	Sulfemethoxazole 400 mg + Trimethoprim 80 mg	Tablet
207122	Sulfamethoxazole 800 mg + Trimethoprim 160 mg	Tablet
207123	TinidazoleTablet 500 mg	Capsule
207124	Tetracycline capsule 250 mg	capsule
207125	Tetracycline capsule 500 mg	Tablet
208	Anti-Leprosy Medicines	Tablet
208101	Anti-Leprosy Medicines	
208101	Anti-Tuberculosis Medicines	
209101	Ethambutol Tablet 100 mg	Tablet
209102	Ethambutol Tablet 400 mg	Tablet
203102	Isoniazid 75 mg + Rifampicin 150 mg + Pyrazinamide 400 mg + Ethambutol 275	Tubict
209103	mg(HRZE FDC Tablet)	Tablet
209104	Isoniazid 75 mg + Rifampicin 150 mg + Ethambutol 275 mg(HRE FDC Tablet)	Tablet
209105	Isoniazid 75 mg + Rifampicin 150 mg (HR FDC Tablet)	Tablet
209106	Isoniazid 50 mg + Rifampicin 75 mg + Ethambutol 150 mg(HRE FDC Tablet)	Tablet
209107	Isoniazid 50 mg + Rifampicin 75 mg (HR FDC Tablet)	Tablet
209108	Isoniazid Tablet 100 mg	Tablet
209109	Isoniazid Tablet 300 mg	Tablet
209110	Rifampicin Tablet 150 mg	Tablet
209111	Rifampicin Tablet 450 mg	Tablet
209112	Amoxicillin 875 mg + Clavulanic Acid 175 mg Tablet	Tablet
209113	Bedaquillin Tablet 100 mg	Tablet
209114	Capromycin Injection 1 gm	Injectable
209115	Clofazimine Capsule 100 mg	Capsule
209116	Ethionamide Tablet 250 mg	Tablet
203110	LUMONAMIAC TADICI 250 Mg	Tablet

209117	Kanamycin Injection 1 gm	Injectable	
209118	Linozolid Tablet 600 mg	Tablet	
209119	Levofloxacin Tablet 250 mg	Tablet	
209120	Moxifloxacin Tablet 400 mg	Tablet	
209120	PAS Sachet 400 mg	Sachet	
209121		Tablet	
209122	Pyrazinamide Tablet 400 mg	Tablet	
	Pyrazinamide Tablet 500 mg	Tablet	
210	Antifungal Medicines	Tablet	
210101	Clotrimazole Pessaries 100 mg	Tablet	
210102	Fluconazole Capsule 150 mg	Capsule	
211	Antiviral Medicines		
211101	Acyclovir Tablet 200 mg	Tablet	
212	Anti-Retroviral Medicines		
212101			
213	Anti-hepatitis Medicines		
212101			
214	Anti-filarial Medicines		
214101	Diethylcarbamazine Tablet 100mg	Tablet	
215	Antimalarial Medicines		
215101			
216	Anti-neoplastic and immunosuppressive Medicines		
216101			
217	Anti-parkinsonism Medicines		
217101			
218	Anti-anaemia Medicines		
218101	Ferrous Sulphate 200 mg eq to 60 mg elemental iron	Tablet	
218102	Ferrous Sulphate 200 mg eq to 60 mg Elemental Iron and Folic Acid 0.04 mg.	Tablet	
218103	Folic Acid Tablet 5 mg	Tablet	
219	Human Immunoglobulins		
219101	Anti-rabies Immonoglobulins	Injectable	
220	Cardiovascular Medicines		
220101	Amlodipine Tablet 5 mg	Tablet	
220102	Aspirin Enteric Coated Tablet 75 mg	Tablet	
220103	Aspirin Enteric Coated Tablet 150 mg	Tablet	
220104	Atenolol Tablet 50 mg	Tablet	
220105	Digoxin Tablet 0.25 mg	Tablet	
221	Dermatological Medicines (Topical)		
221101	Acyclovir Cream 5% w/w - 5gm	Cream	
221102	Benzoic Acid (6%) and Salicylic Acid(3%) Ointment 30 gm	Cream	
221103	Calamine Lotion 15% w/v - 30 ml Lotion		
221104	Cotrimazole Cream 1% W/W, 25 G		
221105	Gamma Benzene Hexachloride Lotion 1% W/V, 100 ml	Lotion	
221105			
221105	Gentian Violet Solution 2% W/V, 10 ml	Solution	

221108	Silver Sulfadiazine Cream 1% W/W, 25 G	Cream		
222				
222101	Povidone Iodine 5% W/V, 500 ml			
223	Diuretics			
223101	Furosemide Tablet 40 mg	Tablet		
223102	Hydrochlorothiazide Tablet 25 mg	Tablet		
223103	Furosemide injection 10mg/ml, 2ml	Tablet		
224	Gastrointestinal Medicine			
224101	Aluminium Hydroxide 250 mg and Magnesium Hydroxide 250 mg Tablet	Tablet		
224102	Hyosine Butylbromide Injection 20 mg/ml, 1ml	Injectable		
224103	Hyosine Butylbromide Tablet 10 mg	Tablet		
224104	Hyosine Butylbromide Tablet 20 mg	Tablet		
224105	Ranitidine Tablet 150 mg	Tablet		
224106	Ranitidine Injection 25 mg/ml, 2 ml	Injectable		
225	Anti-emetics Medicines			
225101	Metoclopramide Tablet 10 mg	Tablet		
225102	Metoclopramide Injection 5 mg/ml	Injectable		
225103	Promethazine Tablet 25 mg	Tablet		
226	Medicines used in Diarrhoea			
226101	Oral Rehydration Salt (ORS)	Sachet		
226102	Zinc 20 mg Dispersible Tablet	Tablet		
227	Hormones and Contraceptives			
227101	Combine Oral Pills Tablet (Levonorgestrol 0.15 mg or Norgesterol 0.3 mg and Ethnyl Estradiol 0.03 mg) Table			
227102	Intra Uterine Contraceptive Devices(IUCD) Cupper T 380 A	Insertion		
227103	Medroxyprogesterone Acetate 150 mg/ml (Depot Injection)	Injectable		
227104	Sub-Dermal Implant(Levonorgestrel 75 mg)	Insertion		
228	Anti-diabetic Medicines			
228101	Metformin Tablet 500 mg	Tablet		
228102	Metformin Tablet 850 mg	Tablet		
229	Thyroid and Anti-thyroid Medicines			
229101	Levothyroxine 25 mcg	Tablet		
229102	Levothyroxine 50 mcg	Tablet		
230	Sera and Immunoglobulins			
230101	Antisnake Venome	Injectable		
231	Vaccines			
231101	BCG Vaccine(Baccilus Clamette Gaurin) 20 Dose/Vials1 ml	Injectable		
231102	DPT- Hep B- Hib (Diptheria, Pretusis, Tetanus, Hepatitis B, Human Influenza type b) Injectable			
231103	JE Vaccine (Japanese Encephalitis)	Injectable		
	MR Vaccine (Measles, Rubella)10 dose/vials Injectable			
231104				
231105	bOPV Vaccine (Bivalent Oral Polio Vaccine)	Oral Drops		
	bOPV Vaccine (Bivalent Oral Polio Vaccine) IPV Vaccine (Injectable Polymycetis Vaccine)	Oral Drops Injectable Injectable		

231108	PCV Vaccine (Pneumococal Conjugative Vaccine)	Injectable
232	Ophthalmological Preparations	
232101	Acetazolamide 250 mg Tablet	Tablet
232102	Chloramphenicol Eye Ointment 1% w/w - 5 gm	Ointment
232103	Ciprofloxacin Eye/Ear Drop 0.3% w/v - 5 ml	Drops
232104	Tetracycline Eye Ointment 1 %, 5 G	Ointment
233	Oxytocics and Anti-Oxytocics	
233101	Misoprostol 200 mcg Tablet	Tablet
233102	Oxytocin Injection 5 IU/ml, 1 ml	Injectable
234	Medicine for Mental and Behaviour Disorder	
234101	Alprazolam Tablet 0.25 mg	Tablet
234102	Amitriptyline Tablet 10 mg	Tablet
234103	Amitriptyline Tablet 25 mg	Tablet
234104	Chlorpromazine Tablet 100 mg	Tablet
235	Medicines Acting on Respiratory Tract	
235101	Aminophylline Tablet 100 mg	Tablet
235102	Salbutamol Tablet 2 mg	Tablet
235103	Salbutamol Tablet 4mg	Tablet
236	Solutions Correcting Water, Electrolyte and Acid-Base Disturbances	
236101	Compound Solution of Sodium Lactate, 500 ml	Injectable
236102	Dextrose 5 % Infusion, 500 ml	Injectable
236103	Sodium Chloride 0.9%, 500 ml	Injectable
237	Vitamins and Minerals	
237101	Thiamine Tablet 100 mg	Tablet
237102	Vitamin A Capsule 200000 IU	Capsule
237103	Vitamin B Complex Capsule	Capsule
238	Nose and Throat Medicines	
238101	Oxymetazoline 0.05 % W/V Nasal Drops 5 ml	Nasal Drops
239	Specific Medicines for Neonatal Care	
239101	Chlorhexidine as Di-Gluconate 4% gel, 3G	Gel
240	Medicines for Diseases of Joints	
240101	Allopurinol Tablet 100 mg	Tablet
240102	Allopurinol Tablet 300 mg	Tablet

DFID/Nepal Health Sector Programme III (NHSP3)

SIGN-OFF SHEET: TERM OF REFERENCE Title of the Payment Deliverable Develop coding of the specification bank and orientate all DoHS divisions' staff on their use Technical Adviser Dr. Suresh Tiwari- Lead Advisor- Procurement and PFM Team Leader Gerard O'Brien DFID Health Advisor Nichola Cadge

TERMS OF REFERENCE

Develop coding of specification bank and orientate all DoHS divisions' staff on their use

1. Introduction

Strengthening health sector procurement builds on the gains made under the Nepal Health Sector Programme II (NHSP2). The capacity enhancement at the organisation, system, and human resource levels, is considered an important pathway to achieve the targets set out in the Nepal Health Sector Support (NHSS) strategy (2016-2021) and the Nepal Health Sector Programme III (NHSP3)'s log frame. Support for the Logistic Management Division (LMD) at the Department of Health Services (DoHS) will focus on developing more streamlined, efficient, and transparent systems, and create good procurement practices. The current technical assistance (TA) in procurement reform will contribute to the effective delivery of the NHSS goal of ensuring equal access to quality health services. This will be achieved by ensuring the timely supply of essential drugs and equipment. To achieve this important objective, the TA team will also engage the Human Resource and Financial Management Division (HRFMD) at the MoH. Through the promulgation of the constitution in 2015, Nepal became a Federal Democratic Republic. Accordingly, the previous unitary system of governance was replaced by a decentralised federal form of governance. The state is structured at three levels namely the federation, the state, and the local level. In this context, the importance of strengthening procurement functions within the LMD of the DoHS has been realised. As a part of payment deliverable, the TA team will provide technical support to the DoHS's LMD. The support provided will be in developing and implementing the coding system of the specification bank. It will contribute to enhancing the integrity of procurement processes.

To achieve these goals, the TA will build the capacity of the LMD through developing the procurement process. Development of the preparation and standardisation of the Technical Specification of medicines and medical equipment at different levels in health facilities had commenced in NHSP2. Identification and categorisation of standard lists of equipment for the different levels of health facilities needs to be further developed, enhanced, and uploaded to the LMD website. Currently, the standard specification list of 1066 items of medical equipment, items of 22 cold chain equipment, and 86 essential medicines are available in the specification bank. However, the MoH has made decisions to expand the list of drugs and equipment. Coding for the drugs and equipment will support relevant divisions and the LMD to prepare the procurement plan accurately and efficiently. The TA team will work with the LMD to re-assess the importance of updating the list, adding more specifications, and uploading them into the LMD website.

2. Purpose and Objectives

The purpose of this task is to strengthen the procurement process of DoHS LMD through the development of a coding system of specification. The coding system of the specification bank functions includes work that collectively contributes to improving the procurement function at the

DoHS LMD. This then ensures the availability of essential drugs. The following are the specific objectives of this payment deliverable:

- 5. Define codes for medical goods and equipment
- 6. Develop an IT system to make the specification bank more user-friendly
- 7. Train DoHS staff members in using codes in the procurement process and inventory management (development of the Consolidated Annual Procurement Plan [CAPP], preparation of Bidding Documents, etc.)
- 8. Upload the specification bank onto the LMD website

3. Methods/SoW

The TA team will support the LMD to prepare and standardise the coding systems in relation to drugs and equipment. We will finalise the coding system for drugs and equipment through a workshop process. The coding will be built into the specification bank and we will support the LMD to upload it onto the LMD website. Also, IT support will be required to build the coding and specification bank into the software. This software will be user-friendly and LMD staff will be trained on how to periodically update the information.

4. Deliverables

SN	Deliverable	Due by	Means of Verification
1	Review of current Specification Bank of the	20 June	Report
	LMD and present in the workshop	2017	
2	Coding system of the drugs and equipment	30 July	Coding list with IT
	developed	2017	system
3	Provision of training to the DoHS staff members	15 August	Training report
		2017	

5. Timeline

The TA team will work with the LMD to review and finalise the coding system. We will complete the report and submit it to the LMD on 21 August 2017. After having the approval from LMD we will then submit the report to DFID on 31 August 2017.

6. Risks

The potential provincial election in the country may affect the participation of government officials in relation to the workshop and meeting. To mitigate any risk, we will share the documents before the meeting, and organise briefer meetings.

7. Audience and dissemination requirements

The LMD will benefit from this task. We will involve the responsible officer from the LMD during the development and improvement of the specification bank. The specification bank will be disseminated in a meeting of the CAPP monitoring committee. The respective directors from divisions/centres and representatives from the External Development Partners (EDPs) will be participating in the dissemination meeting.