

ESSENTIAL MEDICINES & DISPOSABLE SUPPLIES LIST



**Department of Health
Government of Sindh**



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ACRONYMS

BHU	Basic Health Unit
CD	Community Dispensary
CMW	Community Midwife
DHQ	District Headquarter Hospital
DOH	Department of Health
EDL	Essential Drugs List
EML	Essential Medicines List
EPI	Expanded Program on Immunization
INN	international non-proprietary names
IU	international unit
LHW	Lady Health Worker
MCH	Maternal and Child Health
MDR	multidrug-resistance
MIU	million international unit
RHC	Rural Health Center
THQ	Tehsil Headquarter Hospital
UNICEF	United Nations Children's Fund
USAID	U.S. Agency for International Development
WHO	World Health Organization
w/v	weight by volume
w/w	weight by weight

SYMBOLS AND TERMS

Note: The medicines listed in this list are generic medicines; therefore, the names of the medicines are always written in lowercase letters.

The following symbols are used throughout this list of medicines:

- *Indicates similar clinical performance within a pharmacological class.*
- Ⓜ *Indicates an age or weight restriction on use of medicine.*
- © *Signifies a specific indication for restricting its use to children.*
- ✓ *In the right side column cells indicates that the medicine should be available at that particular facility level.*
- ✗ *In the right side column cells indicates that the medicine should not be given at that particular facility level.*

FOREWORD

The World Health Organization (WHO) defines Essential Medicines as “*those that satisfy the priority health care needs of the population*”. They are intended to be available within the context of functioning health systems at all times in adequate amounts, in the appropriate dosage forms, with assured quality, and at a price the individual and the community can afford. Careful selection of a limited range of essential medicines results in higher quality of care for patients, better management and use, and cost effective use of health resources. Selection of medicines for primary and secondary level healthcare facilities follow users’ acceptance of pharmaceutical products that defines the availability of a medicine in a province. It is matter of great pride that we are presenting this revised and updated essential medicines list of Sindh, 2017, which is a critical document for the quality of health services across the province.

The Sindh EML 2017 includes the medicines needed to adequately address priority health problems of the province. All health sector public and private stakeholders are expected to seriously consider adopting this list as a way forward to guide the provincial government in use of essential and very essential medicines, which will determine its access and availability up to end user level. The district governments can play a pivotal role by encouraging procurement and supply chain management policies based on essential and very essential medicine concepts to promote the rational use of public resources. The Department of Health will make all efforts to improve patient care by making available quality medicines to the doorstep of each individual of this province.

I would like to express my gratitude to the USAID/Pakistan for providing this support through USAID GHSC-PSM Project for reviewing and updating province focused standard EML for Sindh. The project’s tangible support in upgrading the supply chain management and development of EML will contribute towards ensuring the governance and accountability within health systems. Adapting the provincial list will ensure transparency and will ensure best value for money in procurement, improved performance of health professionals, and availability of quality medicines for the people of Sindh.



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ACKNOWLEDGMENT

In 2014, with the technical and financial support of USAID, the Department of Health, Government of Sindh, developed province-focused EML in accordance with WHO standards for primary and secondary level health facilities. Per WHO guidelines for EML review each after two to three years, the Department of Health, Government of Sindh with the technical and financial support of USAID funded Global Health Supply Chain Program- Procurement and Supply Management (GHSC-PSM) project reviewed the EML following WHO's 20th Model Essential Medicines List 2017, and updated after in-depth consultations with all provincial stakeholders. Moreover, the health and medical professionals from district health offices and public sector health institutions of Sindh have also contributed and provided valuable inputs in updating the EML. Thereafter the provincial technical committee formed has revised and endorsed the updated EML in line with WHO guidelines. The revised and updated version of EML will be available at <http://health.Sindh.gov.pk>.

I would like to express my deepest appreciation to all relevant public sector stakeholders, development partners, health specialists and medical professionals for reviewing, contributing, guiding and supporting the updated EML for primary and secondary healthcare facilities of Sindh.

The DOH highly appreciates the auspicious and productive support of USAID/Pakistan towards strengthening the health sector of the province. We also wish to appreciate Dr. Muhammad Tariq, Country Director, USAID GHSC-PSM Project Pakistan for his leadership role and his dedicated team for their devoted efforts and support provided in updating the EML.



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ESSENTIAL MEDICINES & DISPOSABLE SUPPLIES

Medicines have a major role in protecting, maintaining, and restoring health. Policymakers and departments implementing health activities and programs are responsible for providing appropriate quality medicines, in adequate quantities, at reasonable prices.

However, to ensure equitable access to quality medicines and to promote their rational use, developing countries still face challenges—even though governments, development agencies, and the World Health Organization (WHO) continue their efforts. The recent reforms in health sector financing, globalization, and economic recessions have shown improved access to essential medicines.

The publication, *WHO Model List of Essential Medicines (WHO 2017)*, is a guide for developing national and institutional essential medicines lists. This model list is regularly revised.

Essential medicines are—

- intended to satisfy the priority healthcare needs of the population
- selected with regard to disease prevalence, evidence on efficacy and safety, and comparative cost effectiveness
- intended to be available within the context of functioning health systems, at all times; in adequate amounts, in appropriate dosage forms, with assured quality, and at a price the individual and the community can afford
- one of the most cost-effective elements in modern healthcare; their potential health impact is enormous.

The WHO list is regularly updated with a selection of medicines that reflect new therapeutic options and changing therapeutic needs. It helps to ensure drug quality and to continue developing better medicines—medicines for emerging diseases and medicines to meet changing resistance patterns.

WHO discourages using the term Essential Drugs Lists (EDL) because the word Drugs is also commonly used for narcotics and other stimulant drugs. Therefore, WHO recommends using the title Essential Medicines List (EML).

WHAT ARE ESSENTIAL MEDICINES?

Since 2002, essential medicines have been defined as “those that satisfy the priority health-care needs of the population. They are selected with due regard to public health relevance, evidence on efficacy and safety, and comparative cost-effectiveness. Essential medicines are intended to be available within the context of functioning health systems at all times in adequate amounts, in the appropriate dosage forms, with assured quality and adequate information, and at a price the individual and the community can afford. The implementation of the concept of essential medicines is intended to be flexible and adaptable to many different situations; exactly which medicines are regarded as essential remains a national responsibility.” This definition evolved from the first definition in 1977 (WHO 1977), which was adopted in the Alma-Ata Declaration of 1978 (WHO 1978). The main change has been the selection process—from an experts-based approach to an evidence-based approach.

An EML includes a limited number of carefully selected medicines. These lists have been published as formularies and institutional lists of medicines, which are made available to health facilities and health workers. The list may not always be called an EML; but, whatever name is used, they all serve the same function. EMLs have been one cornerstone of public health delivery and the basis for efforts to ensure consistent medicine supply and management. It is an important strategy for improving access to and use of medicines, especially for the vulnerable segment of a population. Furthermore, an EML can be an advocacy tool to help countries spend their limited resources on the medicines that are most needed and that offer the best value for the money.

WHO recommends the following process to develop a national EML (see figure 1).

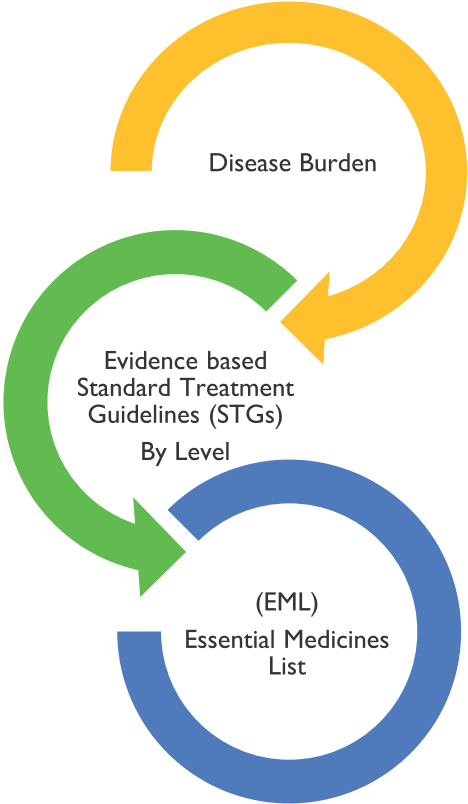
WHAT ARE DISPOSABLE SUPPLIES?

Medical disposable supplies are the products used for patient care that include wound care supplies, face masks, medical clothing, gloves, syringes, needles, catheters, sutures and devices for transient or short term use.

The Drug Regulatory Authority of Pakistan Act, 2012 was promulgated on 13th November, 2012 (DRAP Act 2012) by the Parliament for the establishment of Drug Regulatory Authority of Pakistan to regulate the manufacture, import, export, storage, distribution and sale of therapeutic goods including drugs, alternative medicines, medical devices, biologicals and other related products as may be notified by the Authority. The medical devices were thus brought under regulation and declared as drugs under the Drug Act, 1976.

The Medical Devices Division established under the DRAP Act 2012, formulated rules called Medical Devices Rules, 2015 (MDR, 2015), for regulation of medical devices. Under these rules medical devices and in vitro diagnostic medical devices have been classified into Class A, B, C and D, depending upon the level of risk they pose to patients, users and other persons, where class D represents the highest risk class. Most of the disposable supplies listed in primary and secondary healthcare facilities lists fall under class A and B.

Figure 1: Development of Essential Medicines List



USING THE ESSENTIAL MEDICINES LIST

Use the EML for standardized procurement. The EML uses the international non-proprietary names (INN) classification, which is the official shortened scientific name or generic name of the medicine, based on the active ingredient. Using the INN reduces the risk of duplication, confusion, or errors in identifying a product. For example, cotrimoxazole—the official or generic name—is easier to recognize and remember than the range of alternatives, such as Septran, Bactrim, etc.; and it avoids mistakes in prescribing, dispensing, and ordering. Generic medicines are also usually much cheaper than proprietary medicines.

EMLs help simplify the quantification of medicine requirements and the training for those prescribing and dispensing medicines. If only a limited number of medicines are used, health workers will be more familiar with indications, dosages, side effects, and contraindications.

EXPLANATORY NOTES

The segregated core lists presents the list of minimum medicine needs for a basic healthcare system; it lists the most efficacious, safe, and cost-effective medicines for priority conditions. Priority conditions are selected on the basis of current and estimated future public health relevance and the potential for safe and cost-effective treatment.

An entry on the EML carries no assurance of pharmaceutical quality. It is the responsibility of the relevant procurement authority to ensure that each product is of appropriate pharmaceutical quality (including stability); and that, when relevant, different products are interchangeable.

Medicines and dosage forms are listed in alphabetical order within each section; one form is not preferred over another. Consult standard treatment guidelines for information on appropriate dosage forms.











	<p>The square box  symbol primarily indicates similar clinical performance within a pharmacological class. The listed medicines are examples of the class with the best evidence for effectiveness and safety. In some cases, this may be the first medicine licensed for marketing; in other cases, subsequently licensed compounds may be safer or more effective. If the efficacy and safety data are the same, the listed medicine is the one that is generally available at the lowest price, based on international drug price information sources. Not all square boxes are applicable to medicine selection for children. Therapeutic equivalence is only indicated based on the reviews of efficacy and safety and when consistent with WHO clinical guidelines.</p>
	<p>The  symbol indicates an age or weight restriction for the medicine; see table I for details for each medicine.</p>
	<p>The  symbol signifies a specific indication for restricting its use for children.</p>
	<p>The  symbol in the right side column cells indicates that the medicine should be available at that particular facility level.</p>
	<p>The  symbol in the right side column cells indicates that the medicine should not be given at that particular facility level</p>

Table 1: Medicines with Age or Weight Restrictions

artesunate + pyronaridine tetraphosphate	> 5 kg
atazanavir	>25 kg
atropine	>3 months
benzyl benzoate	>2 years
betamethasone topical preparations	hydrocortisone preferred for neonates
cefazolin	>1 month
ceftriaxone	>41 weeks corrected gestational age
darunavir	> 3 years
delamanid	> 6 years
dihydroartemisinin + piperaquine phosphate	> 5 kg
diloxanide	>25 kg
doxycycline	>8 years (except for serious infections, e.g., cholera)
efavirenz	>3 years or >10 kg
fluoxetine	>8 years
ibuprofen	>3 months (except IV form for patent <i>ductus arteriosus</i>)
mefloquine	>5 kg or >3 months
metoclopramide	not for neonates
nevirapine	> 6 weeks
ondansetron	>1 month
silver sulfadiazine	>2 months
tetracaine	not for preterm neonates
trimethoprim	>6 months
xylometazoline	>3 months




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List of Essential Medicines & Disposable Supplies for
Primary Healthcare Facilities

Department of Health
Government of Sindh

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
(1) ANAESTHETICS LOCAL								
1	□ lidocaine (hydrochloride)	vial/ ampoule	2%			✓		✓
		topical gel	2%			✗		✓
2	lignocaine + epinephrine (adrenaline)	topical solution	4%			✗		✓
		injection	2% + 1:200 000			✗		✓
		dental cartridge	2% + 1:80 000			✗		✓
(2) ANALGESICS OPIOID & CENTRALLY ACTING								
3	morphine (sulphate or hydrochloride)	ampoule	10 mg / 1-ml				✗	✓
4	pethidine (hydrochloride)	ampoule	50 mg/ml in 2ml				✗	✓
(3) ANALGESICS / NON-STEROIDAL ANTI-INFLAMMATORY MEDICINES (NSAIMs)								
5	acetylsalicylic acid (dispersible)	tablets	300 mg			✓		✓
		suppository	50 mg to 150 mg			✗		✗
6	diclofenac (sodium)	tablets	50 mg			✓		✓
		ampoule	75 mg in 3ml			✗		✓
7	ibuprofen 	tablets	200 mg, 400 mg			✓		✓
		syrup	200 mg/5ml			✓		✓
8	mefenamic acid	tablets	250 mg		✓		✗	✓
		suspension	50 mg / 5 ml			✗		✗

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
9	paracetamol	tablets	500 mg	✓	✓	✓	✓	✓
		syrup	120 mg / 5ml	✓	✓	✓	✓	✓
		injection	150 mg / ml			X	X	✓
		suppository	100 mg			X	✓	✓
(4) ANTIALLERGENICS and MEDICINES USED IN ANAPHYLAXIS								
10	□ chlorpheniramine (hydrogen maleate) 	tablets	4 mg			✓	✓	✓
		syrup 	2 mg / 5 ml			✓	✓	✓
11	dexamethasone (disodium phosphate)	injection	10 mg / ml			X	✓	✓
		injection	4 mg / ml			✓	✓	✓
12	epinephrine (adrenaline)	tablets	0.5 mg			X	✓	✓
		ampoule	1 mg /ml			X	X	✓
13	hydrocortisone (sodium succinate)	injection	100mg, 250 mg			✓	✓	✓
14	loratadine	tablets	10 mg			X	✓	✓
		syrup	1 mg/ml			X	✓	✓
15	□ prednisolone	tablets	5 mg			X	X	✓
(5) ANTIDOTES AND OTHER SUBSTANCES USED IN POISONING								
16	atropine (sulphate) 	ampoule	1 mg in 1ml				✓	✓
17	charcoal activated	powder					X	✓
18	diazepam	injection	10 mg				✓	✓
		gel / rectal solutions	5 mg/ml in 0.5 ml; 2-ml; 4-ml				✓	✓
19	naloxone (hydrochloride)	ampoule	400 mcg in 1ml				X	✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
(6) ANTI-CONVULSANTS / ANTI-EPILEPTICS								
20	carbamazepine	tablets syrup	200 mg 100mg / 5ml	X X	X X	X X	X X	✓ ✓
21	magnesium sulphate (<i>For eclampsia only</i>)	injection	500mg/ml		✓		✓	✓
22	phenobarbital (sodium)	tablets injection	30 mg 200 mg/ml			X X	X X	✓ ✓
23	phenytoin (sodium)	tablets	100 mg			X	X	✓
(7) ANTI-HELMINTHIC MEDICINES								
24	albendazole	tablets syrup	200 mg 100 mg / 5ml			X X	X X	✓ ✓
25	mebendazole (chewable)	tablets syrup	500 mg (<i>with caution only for adults</i>) 100 mg / 5ml	✓	✓		✓	✓
26	pyrantel (pamoate)	tablets syrup	250 mg 250 mg / 5ml			X X	X X	✓ ✓
(8) ANTI-FUNGAL MEDICINES								
27	clotrimazole	vaginal cream topical cream vaginal tablet	1% w/v 1% w/v 100, 500 mg			✓ X X	✓ X ✓	✓ ✓ ✓
28	nystatin	tablets drops ☺ vaginal tablet	500,000 IU 100,000 IU/ml equivalent to 100 000 IU			✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
(9) ANTI-BIOTICS / ANTIMICROBIALS								
GROUP 1 – KEY ACCESS ANTI-BIOTICS								
29	amoxicillin (tri-hydrate) <i>(preferably dispersible tablets)</i>	capsules / tablet syrup ☉ injection	250 mg, 500 mg 125mg & 250mg /5ml 250mg, 500 mg	✓ ✓	✓ ✓	✓ ✓	✓ ✓	
30	ampicillin (sodium)	capsules syrup ☉ injection	250 mg, 500 mg 125 mg & 250 mg /5ml 250 mg			✗ ✗ ✗	✓ ✓ ✓	
31	cotrimoxazole ^a (sulfamethoxazole + trimethoprim)	tablets ☉ syrup ☉	400 mg + 80 mg 200mg + 40mg/5 ml			✓	✓	
32	<input type="checkbox"/> gentamicin (sulphate)	injection	40 mg, 80 mg			✗	✓	
33	<input type="checkbox"/> metronidazole (benzoate)	tablets	200 mg, 400 mg		✓	✓	✓	
		syrup	200 mg / 5ml		✓	✓	✓	
34	nitrofurantoin	infusion	5mg/ml in 100ml			✗	✓	
		tablets	100 mg			✗	✓	
GROUP 2 –WATCH GROUP ANTI-BIOTICS								
35	<input type="checkbox"/> azithromycin	capsules	250 mg, 500 mg				✗	
		suspension	125mg / 5ml in 22.5ml				✗	
36	cefixime* (tri-hydrate)	capsules	400 mg				✗	
		syrup	200 mg / 5ml				✓	
37	<input type="checkbox"/> ciprofloxacin (hydrochloride)	tablets	250 mg, 500 mg				✓	

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
(10) ANTI-TUBERCULOSIS MEDICINES (As per TB Control Program guidelines)								
38	streptomycin	injection	1 gm				✓	✓
39	rifampicin + isoniazid (RH)	tablets	150mg + 75mg				✓	✓
		tablets dispersible	75mg + 50mg				✓	✓
40	rifampicin + isoniazid + pyrazinamide (RHZ)	tablets dispersible	75mg + 50mg + 150 mg.				✓	✓
41	rifampicin + isoniazid + pyrazinamide + ethambutol (RHZE)	tablets	150mg+75mg+ 400mg+275 mg				✓	✓
		tablets	150 mg + 75 mg + 275 mg				✓	✓
(11) ANTI-DIABETIC MEDICINES								
43	glibenclamide	tablets	5 mg				✓	✓
44	insulin regular	injection	100 IU / ml				✓	✓
45	insulin comp	injection	30 + 70 % w/v				✓	✓
46	metformin (hydrochloride)	tablets	500 mg				✓	✓
(12) ANTI-MALARIAL MEDICINES								
47	artesunate plus sulfadoxine and pyrimethamine <i>to be used in combination (co blister)</i>	tablets	co blister of (6+2) tablet - two large tablets each has sulfadoxine 500mg, + pyrimethamine 25mg and six small tablets, each contains artesunate 50mg U.S.P.			✗	✓	✓
		tablets	co blister of (6+3) tablets- three large tablets, each has sulfadoxine 500mg+ pyrimethamine 25mg - six small			✗	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
48	artesunate+ sulfadoxine + pyrimethamine <i>co-blister / combined therapy (For Falci-parum)</i>	tablets	tablets, each contains artesunate 100mg U.S.P. 50mg			✓	✓	✓
49	chloroquine (phosphate or sulphate)	tablets syrup	150 mg 50mg/5ml	✓		✓	✓	✓
50	primaquine (diphosphate) <i>(For Vivax)</i>	tablets	15 mg			✓	✓	✓
51	sulfadoxine + pyrimethamine <i>(For Falci-parum)</i>	tablets	500mg + 25 mg (co-bliester / combined therapy)			✓	✓	✓
(13) MEDICINES ACTING ON GASTROINTESTINAL TRACT								
52	aluminium hydroxide + magnesium trisilicate	tablets	250mg +500mg			✓	✓	✓
53	bisacodyl	tablets	5 mg			✗	✗	✓
54	glycerin	suppository				✓	✓	✓
55	hyoscine (butylbromide)	injection tablets	20 mg/ml 10 mg			✓	✓	✓
56	metoclopramide (hydrochloride) a	tablets syrup injection	10 mg 5 mg / 5 ml 5mg/ ml			✗	✗	✓
57	<input type="checkbox"/> omeprazole	capsules	10mg, 20mg, 40mg			✓	✓	✓
58	ORS (low osmolality)	sachet	dry mixture (low osmolality formula) in sachet for 1 liter of	✓	✓	✓	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
	<i>Recommended in combination with Zinc Sulphate 20 mg dispersible tablet in case of acute diarrhoea</i>							
59	ranitidine	injection tablets	solution; each sachet contains glucose anhydrous 13.5gm, trisodium citrate dihydrate 2.9 gm, potassium chloride 1.5gm, sodium chloride 2.6gm 25 mg/ ml in 2 ml 150 mg; 250 mg			X	X	✓
(14) CARDIOVASCULAR MEDICINES								
60	amlodipine (besylate)	tablets	2.5 mg; 5 mg			X	X	✓
61	atenolol	tablets	5, 10, 25 mg			X	X	✓
62	enalapril (maleate)	tablets	5, 10 mg			X	✓	✓
63	<input type="checkbox"/> furosemide	tablets injection	20, 40 mg 10 mg			✓	✓	✓
64	glyceryl trinitrate	sublingual injection	500 mcg 20 mg			X	✓	✓
65	<input type="checkbox"/> hydrochlorothiazide	tablets	25, 50 mg			X	X	✓
66	<input type="checkbox"/> isorbide dinitrate	sublingual tablets	5 mg 250, 500 mg			X	X	✓
67	methylodopa (<i>For severe PIH only</i>)	injection	250 mg			✓	✓	✓
(15) OXYTOIC & ANTIOXYTOIC MEDICINES								
68	misoprostol	tablets	200 mcg		✓		✓	✓
69	oxytocin	injection	10 IU in 1-ml		✓		✓	✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
70	nifedipine	capsules softgel	10 mg				X	✓
(16) MEDICINES ACTING ON RESPIRATORY TRACT								
71	aminophylline	injection	25 mg/ml			X	✓	✓
72	ammonium chloride + chlorpheniramine + menthol + diphenhydramine + sodium citrate	syrup (<i>expectorant</i>)	13.1.5mg/5ml + 22mg/5ml + 1mg/5ml + 13.5mg/5ml + 55mg/5ml			✓	X	✓
73	□ salbutamol (sulphate) / albuterol	tablets	2mg and 4mg			✓	✓	✓
		solution	5 mg/ml for nebulizer			X	✓	✓
		inhaler	100 micrograms			X	X	✓
(17) OPHTHALMIC / ENT MEDICINES								
74	boroglycerine	ear drops	40 % (only for wax removing)			✓	✓	✓
75	chloramphenicol	eye drops	0.5 % w/v; 1 % w/v			X	✓	✓
76	□ ciprofloxacin	eye drops	0.3 % w/v			X	X	✓
77	□ gentamicin (sulphate)	eye drops	0.30 %			X	✓	✓
78	polymyxin B sulphate + lignocaine	ear drops	each ml is contains polymyxin B (sulphate):10000 IU/ml, lignocaine:50mg/ml:5ml			✓	✓	✓
79	polymyxin B (sulphate)+ bacitracin zinc	eye ointment	10000 IU/g + 500 IU/g	✓		X	✓	X
80	□ tetracycline (hydrochloride)	eye ointment	1%			✓	✓	✓
81	□ xylometazoline a	nasal drops	0.05 %			X	✓	✓
(18) IV INFUSIONS / PLASMASUBSTITUTES								
82	dextrose + saline	infusion	5 % + 0.9 % w/v			✓	✓	✓
83	glucose / dextrose	infusion	5, 10, %			✓	✓	✓
		ampoule	25 %			✓	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
84	normal saline	infusion	0.9 %			✓	✓	✓
85	plasma expander / substitute	infusion	polygeline 3.5/4% + dextran 6 %w/v,			✓	✗	✓
86	potassium chloride	solution	11.2% in 20-ml ampoule			✗	✗	✓
87	□ ringer's lactate (sodium lactate compound solution)	infusion	infusion, 1000ml contains calcium chloride 0.2gm, potassium chloride 0.3gm, sodium chloride, 6 gm, sodium lactate 3.1gm U.S.P, sterile water for injection 1000ml (q.s.), 1000ml			✓	✓	✓
88	sodium bicarbonate	injection	1.4% isotonic			✗	✓	✓
89	water for injection	ampoule	5 ml, 10 ml			✓	✓	✓
(19) VITAMINS & MINERALS								
90	ascorbic acid	tablets	50, 100, 500 mg			✓	✓	✓
91	B complex (B1, B6 and B12)	tablets	DRAP approved			✓	✓	✓
92	calcium chloride	injection	200 mg/ml			✗	✗	✓
93	calcium gluconate	injection	100 mg/ml in 10-ml			✗	✓	✓
94	calcium lactate	tablets	500mg, 1gm			✓	✓	✓
95	□ cholecalciferol (vitamin D3)	tablets	1.25 mg (50 000 IU)			✗	✓	✓
96	ferrous salt (fumarate)	tablets	equivalent to 60 mg iron			✓	✓	✓
		syrup	equivalent to 25 mg/ml iron		✓	✓	✓	✓
97	folic acid	tablets	0.5mg, 1mg & 5mg			✓	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
98	ferrous salt + folic acid (Nutritional supplement for use during pregnancy)	tablets	equivalent to 60 mg iron + 400 mcg folic acid	✓	✓	✓	✓	✓
99	multiple micronutrients	sachet	UNICEF approved			X	✓	✓
100	multivitamins	tablets	DRAP approved			X	✓	✓
101	retinol (vitamin A)	capsules	50 000 IU; 100 000 IU; 200 000 IU (as palmitate)		✓	✓	✓	✓
102	vitamin K1 (phytonadione)	injection	10 mg			X	X	✓
103	zinc sulphate (for acute diarrhea with ORS)	tablets (dispersible)	20 mg	✓	✓	✓	✓	✓
(20) MISCELLANEOUS MEDICINES								
104	oxygen (medicinal gas) cylinder	inhalation				✓	✓	✓
105	tranexamic acid	injection	250mg, 500mg /5ml			X	✓	✓
		capsules	250mg, 500mg			✓	✓	✓
(21) DERMATOLOGICAL MEDICINES								
106	<input type="checkbox"/> benzyl benzoate ^a	lotion	5% & 25%	✓		✓	✓	✓
107	calamine	lotion	15%			✓	✓	✓
108	coal tar	lotion	5%			X	X	✓
109	<input type="checkbox"/> hydrocortisone	cream	1%			✓	✓	✓
110	<input type="checkbox"/> permethrin	cream, lotion	5%w/w			✓	✓	✓
111	polymyxin B (sulphate)+ bacitracin zinc	ointment	10000IU/g + 5000IU/g			✓	✓	✓
112	silver sulphadiazine ^a	cream	1%			✓	✓	✓
113	sodium thiosulphate	solution	15%			X	X	✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
(22) CONTRACEPTIVES								
114	condoms			✓	✓	✓	✓	✓
115	copper T / multiload	IUCD			✓	X	✓	✓
116	DMPA (medroxyprogesterone acetate)	injection	150 mg/ 1ml	✓	✓	✓	✓	✓
117	<input type="checkbox"/> ethinylloestradiol + <input type="checkbox"/> norethisterone	CO pills	35mcg + 1mg	✓	✓	✓	✓	✓
118	estradiol valerate + norethisterone	injection	5 mg + 50 mg			X	✓	✓
119	<input type="checkbox"/> levonorgestrel	PO pills	30 mcg			✓	✓	✓
120	<input type="checkbox"/> levonorgestrel	EC pills	750 mcg (pack of 2)			✓	✓	✓
121	norethisterone	injection	200 mg/ml in 1ml			✓	✓	✓
(23) VACCINES & SERA (WHO Approved/ As per National EPI Program)								
122	anti-rabies vaccine (PVRV)	single dose vial	>2.5 IU			X	✓	✓
123	anti-snake venom serum		lyophilized form			✓*	✓	✓
124	BCG vaccine					✓*	✓	✓
125	hepatitis B vaccine					✓*	✓	✓
126	measles vaccine					✓*	✓	✓
127	pentavalent vaccine					✓*	✓	✓
128	polio vaccine (OPV trivalent)/IPV	oral/ injection				✓*	✓	✓
129	pneumococcal vaccine					✓*	✓	✓
130	rotavirus vaccine					✓*	✓	✓
131	tetanus toxoid					✓*	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
(24) ANXIOLYTIC MEDICINES								
132	alprazolam	tablets	0.5 mg			X	X	
133	diazepam	tablets	2 mg			X	X	
(25) ANTI-SEPTICS / DISINFECTANTS								
134	chlorhexidine digluconate (7.1%) <i>(Aniseptic for Cord Care)</i>	gel	equivalent to 4 % chlorhexidine (0.1% available chlorine) for solution	✓	✓	✓	✓	✓
135	chlorine base compound	powder			✓	✓	✓	✓
136	halogenated sodium phosphate	powder	100gms			X	✓	✓
137	povidone-iodine	solution	10 %w/v		✓	✓	✓	✓
(26) DISPOSABLE SUPPLIES								
138	absorbent cotton wool	pack	500gm	✓	✓	✓	✓	✓
139	adhesive tape (hypoallergenic)	roll	1, 2 inch	✓	✓	✓	✓	✓
140	airways disposable	sterile packs	all sizes			X	X	✓
141	blood lancets	sterile packs				X	✓	✓
142	cotton bandage	roll	6.5cm x 2m	✓	✓	✓	✓	✓
143	chromic catgut sterile	sterile packs	0, 1/0, 2/0, 3/0, 4/0			X	X	✓
144	crepe bandage		7.5, 10 cm x 2.7m			✓	X	✓
145	endotracheal tube (ETT)	sterile packs	set of 12			X	X	✓
146	examination gloves	pairs	box of 100 (small, medium and large size) [1:2:1]		✓	✓	✓	✓
147	face masks disposable		all types (N95, ASTM level 1-3, Utility mask)			X	✓	✓
148	I.V sets	sterile packs	DRAP approved			✓	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
149	I.V cannula	sterile packs	16G, 20G, 24G		✓	✓	✓	✓
150	liquid paraffin gauze	sterile packs				X	X	✓
151	nasogastric (NG) tube		adult / pediatric sizes			X	X	✓
152	resuscitator bag with mask		adult / pediatric sizes; 0; 1			X	X	✓
153	scalp vein set (<i>DRAP approved</i>)	sterile packs	DRAP approved			X	X	✓
154	silk sutures sterile	12 / pack	0, 1/0, 2/0, 3/0, 4/0			X	✓	✓
155	slides glass					X	✓	✓
156	sterile gauze dressing	sterile packs	7.5 x 7.5 cm (10 ply)			X	✓	✓
157	sterile surgical gloves	pairs	6, 6½, 7, 7½		✓	X	✓	✓
158	syringe (auto disable)	sterile packs	1cc; 3cc; 5cc; insulin		✓	X	✓	✓
159	volumetric chamber (I.V. burette)	sterile packs	100 ml size			X	X	✓
160	clean delivery kits	sterile packs	<ul style="list-style-type: none"> ■ 1 bath soap, 50 gram wrapped ■ 1 apron ■ 2 paper towel ■ 2 pairs of latex examination gloves (m) ■ 1 plastic under sheet (about one square meter) ■ 1 under pads 60cmx90cm ■ 2 alcohol pads ■ 2 packs of sponges (4 sponge) ■ 1 sterile bulb sucker ■ 2 sterile umbilical cord clamp ■ 1 sterile surgical blade 				X	✓

Sr. #	Generic Drug Name	Form	Strength	Primary Healthcare Facilities				
				LHW	CMW	CD	BHU	RHC
			<ul style="list-style-type: none"> ▪ 2 cotton thread (cord ties) ▪ 1 maternity pad ▪ 1 white poly bag for disposal ▪ 1 unbleached dignity drape ▪ 1 instruction sheet 					

List of Essential Medicines & Disposable Supplies for Primary Healthcare


Emergency Tray

Sr #	Items Name	Strength	Qty	CD	BHU	RHC
1	adrenaline injection	0.1 mg/ml	10	✓	✓	✓
2	aminophylline injection	25mg/ml	10	✗	✗	✓
3	atropine injection	1mg/1 ml	10	✓	✓	✓
4	calcium gluconate injection	100 mg/ml in 10-ml	10	✓	✓	✓
5	diazepam injection	5mg/ml	10	✓	✓	✓
6	diclofenac sodium injection	25mg/ml	10	✓	✓	✓
7	dimenhydrinate injection	50mg/ml	10	✓	✓	✓
8	dobutamine injection	50 mg/ml	5	✗	✗	✓
9	furosemide injection	10mg/ml	10	✓	✓	✓
10	hydrocortisone sodium injection	100mg and 250mg	20	✓	✓	✓
11	lidocaine injection	2% W/V , 10ml	10	✗	✓	✓
12	potassium chloride injection	11.2% in 20-ml ampoule	5	✗	✗	✓
13	plasma expander infusion	500ml	5	✗	✓	✓
14	sodium bicarbonate injection	8.4%W/V , 25ml	10	✗	✗	✓
15	tranexamic acid injection	250mg/5ml	10	✓	✓	✓
16	water for injection,	5ml	5	✓	✓	✓
17	25% DW injection	25ml ampoule	10	✓	✓	✓
18	ringer lactate infusion	1000ml	10	✓	✓	✓
19	dextrose infusion	10%,500ml	10	✓	✓	✓
20	normal saline infusion	1000ml	10	✓	✓	✓
21	normal saline injection	0.9 % , 25 ml		✓	✓	✓
22	normal saline + dextrose infusion	5% , 1000ml	10	✓	✓	✓
23	glyceryl trinitrate sublingual	500 mcg	50	✓	✓	✓
24	isosorbide dinitrate sublingual	5 mg	10		✓	✓
25	lidocaine	gel	5	✓	✓	✓
26	cotton roll BPC	500gms	5	✓	✓	✓
27	cotton bandage BPC	4,6inch	24	✓	✓	✓
28	disposable syringe (AD)	5 cc	10	✓	✓	✓
29	disposable syringe	10 cc	5	✓	✓	✓
30	disposable syringe	1 cc	5	✓	✓	✓
31	disposable syringe	20 cc	1	✓	✓	✓
32	volumetric chamber (I.V. burette)	100 ml	5	✗	✗	✓
33	IV set		45	✓	✓	✓
34	IV cannula	18G, 20G, 22G, 24G, 25G	25	✓	✓	✓
35	endotracheal tube (ETT)	3; 3.5; 4; 7.5; 8 mm	10	✗	✗	✓
36	Foley's catheter	all sizes (10 F to 28 F)	10	✓	✓	✓
37	nasogastric (NG) tube	14-18 Fr, pediatric 10-14	12	✓	✓	✓

List of Essential Medicines & Disposable Supplies for
Secondary Healthcare Facilities

Department of Health
Government of Sindh

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
(1) ANAESTHETICS GENERAL					
1	halothane	inhalation		✓	✓
2	isoflurane	inhalation		✓	✓
3	ketamine (hydrochloride)	injection	50mg /ml in 10ml	✓	✓
4	nitrous oxide	inhalation		✓	✓
5	oxygen (medicinal gas) cylinder	inhalation		✓	✓
6	propofol	injection	10 mg / ml in 20 ml	✓	✓
(2) MUSCLE RELAXANTS					
7	□ atracurium (besylate)	injection	10 mg/ml	✓	✓
8	neostigmine (metilsulphate)	injection	2.5 mg in 1ml	✓	✓
9	suxamethonium (chloride)	ampoule	50 mg /ml in 2-ml	✓	✓
(3) ANAESTHETICS LOCAL					
10	□ bupivacaine (hydrochloride) injection for spinal anesthesia	vial	0.25%; 0.5%	✓	✓
		ampoule	7.5mg/ml in 2ml (to be mixed with 7.5% glucose solution)	✓	✓
11	□ lignocaine (hydrochloride)	vial/ ampoule	2%	✓	✓
		topical gel	2% w/w	✓	✓
		topical solution	4% w/v	✓	✓
12	lignocaine + epinephrine (adrenaline)	injection	2% + 1:200 000	✓	✓
		dental cartridge	2% + 1:80 000	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
(4) ANALGESICS OPIOID & CENTRALLY ACTING					
13	midazolam	injection	1 mg/ml	✓	✓
		tablets	7.5 mg	✓	✓
14	nalbuphine	injection	10 mg /ml; 20 mg/ml	✓	✓
15	pentazocine	injection	30 mg / ml	✓	✓
16	pethidine (hydrochloride) (<i>Preoperative medication</i>)	ampoule	50 mg/ml in 2ml	✓	✓
(5) ANALGESICS / NON-STEROIDAL ANTI-INFLAMMATORY MEDICINES (NSAIMs)					
17	acetylsalicylic acid	dispersible tablets	300 mg	✓	✓
		tablets	50 mg	✓	✓
		gel	3 % w/w	✓	✓
18	diclofenac (sodium)	suppository	25 mg	✓	✓
		ampoule	75 mg in 3ml	✓	✓
		tablets	200, 400 mg	✓	✓
19	ibuprofen 	gel	10 % w/w	✓	✓
		syrup	200 mg/5ml	✓	✓
20	meloxicam	tablets	7.5, 15 mg	✓	✓
21	naproxen	tablets	250, 500 mg	✓	✓
		injection	150 mg / ml	✓	✓
22	paracetamol	tablets	500 mg	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
		syrup	120 mg / 5ml	✓	✓
		suppository	100 mg	✓	✓
(6) MEDICINES TO TREAT GOUT					
23	allopurinol	tablets	100 mg	✓	✓
(7) ANTIALLERGENICS AND MEDICINES USED IN ANAPHYLAXIS					
24	<input type="checkbox"/> chlorpheniramine (hydrogen maleate) <input type="checkbox"/>	tablets	4 mg	✓	✓
		injection	10 mg / ml	✓	✓
		syrup ☺	2 mg /5 ml	✓	✓
25	cetirizine	tablets	10 mg	✓	✓
		syrup	5 mg / 5ml	✓	✓
26	dexamethasone (disodium phosphate)	injection	4 mg / ml	✓	✓
		tablets	0.5 mg	✓	✓
27	epinephrine (adrenaline)	ampoule	1 mg/ml	✓	✓
28	hydrocortisone (sodium succinate)	injection	100 mg, 250 mg	✓	✓
29	loratadine	tablets	10 mg	✓	✓
		syrup	1 mg/ml	✓	✓
30	methylprednisolone	injection	500mg; 1 gm	✓	✓
31	promethazine (HCL)	syrup	25 mg/5ml	✓	✓
32	<input type="checkbox"/> prednisolone	tablets	5 mg	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
(8) ANTIDOTES AND OTHER SUBSTANCES USED IN POISONING					
33	atropine (sulphate) ^a	ampoule	1 mg in 1ml	✓	✓
34	charcoal activated	powder		✓	✓
35	methylthionium chloride (methylene blue)	ampoule	10mg/ml -in 10ml	✓	✓
36	naloxone (hydrochloride)	ampoule	400 mcg in 1ml	✓	✓
(9) ANTICONVULSANT / ANTIPILEPTIC MEDICINES					
37	carbamazepine	tablets	200 mg	✓	✓
		syrup	100mg / 5ml	✓	✓
38	levetiracetam	tablets	250mg; 500mg	✓	✓
		syrup	100mg /ml	✓	✓
		injection	500 mg/5ml	✓	✓
39	magnesium sulphate (<i>For eclampsia only</i>)	injection	500mg/ml	✓	✓
40	phenobarbital (sodium)	tablets	30 mg	✓	✓
		injection	200 mg /ml	✓	✓
41	phenytoin (sodium)	tablets	100 mg	✓	✓
		injection	30mg /ml	✓	✓
		syrup	30 mg/5 ml	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
(10) ANTIBIOTICS / ANTIMICROBIALS					
GROUP I – KEY ACCESS ANTIBIOTICS					
42	amoxicillin (trihydrate) (preferably dispersible tablets)	capsules / tablet powder for suspension ☺ injection	250mg, 500 mg 125mg & 250mg /5ml 250 mg, 500 mg	✓ ✓ ✓	✓ ✓ ✓
43	amoxicillin + clavulanic acid	tablets injection	375 mg; 625 mg 1.2 Gm; 600mg	✓ ✓	✓ ✓
44	amikacin (sulphate)	injection	100mg; 500mg.	✓	✓
45	ampicillin (sodium)	capsules powder for suspension ☺ injection	250 mg , 500 mg 125 mg& 250 /5ml 500 mg and 1 g	✓ ✓ ✓	✓ ✓ ✓
46	benzyl penicillin (sodium)	injection ☺	0.6 million IU; 1.2 million IU (sodium or potassium salt)	✓	✓
47	cloxacillin + ampicillin	capsules powder for suspension ☺	250mg, 500 mg 125 mg & 250 mg /5ml	✓ ✓	✓ ✓
48	clindamycin (hydrochloride) (phosphate)	capsules injection	150 mg, 300mg 150mg / ml	✓ ✓	✓ ✓
49	☐ cotrimoxazole (sulfamethoxazole + trimethoprim)	tablets ☺ syrup ☺	400mg + 80 mg 200mg + 40mg/5 ml	✓ ✓	✓ ✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
50	doxycycline ^a	capsules ^c	100 mg	✓	✓
51	<input type="checkbox"/> gentamicin (sulphate)	injection	40 mg, 80 mg	✓	✓
52	<input type="checkbox"/> metronidazole (benzoate)	tablets	200 mg, 400 mg	✓	✓
		injection	500 mg in 100-ml	✓	✓
		syrup	200 mg / 5ml	✓	✓
53	nitrofurantoin	tablets	100 mg	✓	✓
54	procaine benzyl penicillin	injection	1, 3 m IU	✓	✓
GROUP 2 –WATCH GROUP ANTIBIOTICS					
55	azithromycin	capsules	250 mg, 500 mg	✓	✓
		suspension	125mg / 5ml in 22.5ml	✓	✓
56	cefixime* (trihydrate)	capsules	400 mg	✓	✓
		suspension	100mg /5ml	✓	✓
57	ceftriaxone (sodium) ^a	powder for injection	250 mg, 500mg, 1gm	✓	✓
		tablets	250mg, 500 mg	✓	✓
58	<input type="checkbox"/> ciprofloxacin (hydrochloride)	syrup	125mg / 5ml	✓	✓
		infusion	500 mg in 100-ml	✓	✓
59	clarithromycin* <i>(Recommended for use in combination regimens for eradication of H. Pylori in adults)</i>	tablets	500 mg	✓	✓
60	flucloxacillin [floxacinil sodium]	injection	250 mg, 500 mg	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
61	kanamycin (sulphate)	injection	500mg, 1gm	✓	✓
62	levofloxacin	tablets	250 mg , 500 mg	✓	✓
		injection	500 mg	✓	✓
63	meropenem	injection	500mg; 1gm	✓	✗
64	vancomycin (HCL)	injection	500 mg	✓	✓
(11) ANTIHELMINTHIC MEDICINES					
65	albendazole	tablets	200 mg	✓	✓
		syrup	100 mg / 5ml	✓	✓
66	mebendazole (chewable)	tablets	100 mg (with caution only for adults)	✓	✓
67	pyrantel (pamoate)	tablets	250 mg	✓	✓
(12) ANTI-FUNGAL MEDICINES					
68	clotrimazole	vaginal cream	1% w/v	✓	✓
		vaginal tablet	100, 500 mg	✓	✓
69	□ fluconazole	capsules	50 mg	✓	✓
		injection	2 mg/ml	✓	✓
		syrup	50 mg/5 ml	✓	✓
70	nystatin	tablets	500,000 IU	✓	✓
		drops ©	100,000 IU/ml	✓	✓
		vaginal tablet	100 000 IU	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
71	terbinafine (HCl)	tablets	125mg; 250mg	✓	✗
(13) ANTI-TUBERCULOSIS MEDICINES (As per TB Control Program guidelines)					
FIRST LINE MEDICINES					
72	ethambutol	dispersible tablets	100 mg	✓	✓
73	isoniazid	tablets	100mg	✓	✓
74	streptomycin	injection	1 gm	✓	✓
75	rifampicin + isoniazid (RH)	tablets	75mg + 50mg; 150mg + 75mg; 300mg + 150mg	✓	✓
76	rifampicin + isoniazid + pyrazinamide (RHZ)	tablets dispersible	75mg + 50mg + 150 mg.	✓	✓
77	rifampicin + isoniazid + pyrazinamide + ethambutol (RHZE)	tablets	150mg+75mg+ 400mg+275 mg	✓	✓
78	rifampicin + isoniazid + ethambutol (RHE)	tablets	150 mg + 75 mg + 275 mg	✓	✓
SECOND LINE MEDICINES (MDR-TB) used in specialized centers adhering to WHO standards for TB control (Reserve second-line drugs for the treatment of multidrug-resistant tuberculosis (MDR-TB) should be used in specialized centers adhering to WHO standards for TB control)					
79	amikacin	injection	500mg	✓	✓
80	bedaquiline	tablets	100 mg	✓	✓
81	capreomycin	injection	1 gm	✓	✓
82	clofazimine	capsules	100mg	✓	✓
83	cycloserine*	capsules	250 mg	✓	✓
84	delamanid	tablets	100 mg	✓	✓
85	ethambutol	tablets	400 mg	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
86	ethionamide*	tablets	250mg	✓	✓
87	kanamycin (sulphate)	injection	500mg, 1gm	✓	✓
88	levofloxacin	tablets	250mg; 500 mg	✓	✓
89	linezolid	tablets	600mg	✓	✓
90	moxifloxacin	tablets	400 mg	✓	✓
91	p-aminosalicylic acid	granules	100 gm	✓	✓
		sachet	4 gm	✓	✓
92	pyrazinamide	tablets	400 mg	✓	✓
(14) ANTI-LEISHMANIASIS MEDICINES					
93	sodium stibogluconate	injection	100 mg/ml in 30ml vial	✓	✓
(15) ANTI-DIABETIC MEDICINES					
94	glibenclamide	tablets	5 mg	✓	✓
95	glimepiride	tablets	1 mg; 2 mg; 3 mg; 4mg	✓	✓
96	insulin regular	injection	100 IU / ml	✓	✓
97	insulin comp	injection	30 + 70 % w/v	✓	✓
98	insulin NPH	injection	100 IU / ml	✓	✓
99	metformin (hydrochloride)	tablets	500 mg; 850mg; 1gm	✓	✓
(16) ANTI-MALARIAL MEDICINES					
100	artesunate (<i>management of severe malaria</i>)	ampoule	60 mg/ml in 1-ml;	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
101	artemether + lumefantrine	tablets ☉	20 mg + 120 mg	✓	✓
102	artesunate plus sulfadoxine and pyrimethamine <i>to be used in combination (co blister)</i>	tablets	co blister of (6+2) tablet - two large tablets each has sulfadoxine 500mg + pyrimethamine 25mg and six small tablets, each contains artesunate 50mg U.S.P.	✓	✓
		tablets	co blister of (6+3) tablets- three large tablets, each has sulfadoxine 500mg+ pyrimethamine 25mg- six small tablets, each contains artesunate 100mg U.S.P.	✓	✓
103	chloroquine (phosphate or sulphate)	tablets	150 mg	✓	✓
104	primaquine (diphosphate) (<i>For Vivax</i>)	tablets	15 mg	✓	✓
105	quinine (sulphate)	tablets	300 mg	✓	✓
		injection	300 mg / ml in 2ml ampoule	✓	✓
(17) MEDICINES ACTING ON GASTROINTESTINAL TRACT					
106	aluminium hydroxide + magnesium trisilicate	tablets	250mg + 500mg	✓	✓
107	bisacodyl	tablets	5 mg	✓	✓
108	dimenhydrinate	injection	40mg	✓	✓
109	glycerin	suppository		✓	✓
110	hyoscine (butylbromide)	injection	20 mg/ml	✓	✓
		tablets	10 mg	✓	✓
111	lactulose	syrup	3.35 gm /5ml in 120 ml	✓	✓
112	magnesium oxides and hydroxides	suspension	7.9 %w/v	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
113	meclizine + pyridoxine	tablets	20 mg/ml	✓	✓
114	metoclopramide (hydrochloride) <input type="checkbox"/>	tablets	10 mg	✓	✓
		syrup	5 mg / 5ml	✓	✓
115	omeprazole	injection	5mg/ ml	✓	✓
		tablets	10mg; 20mg; 40mg	✓	✓
116	ORS (low osmolarity) <i>Recommended in combination with Zinc Sulphate 20 mg dispersible tablet in case of acute diarrhea</i>	injection	40mg	✓	✓
		sachet	dry mixture (low osmolarity formula) in sachet for 1 liter of solution ,each sachet contains glucose anhydrous 13.5gm B.P. , trisodium citrate dihydrate 2.9 gm B.P. , potassium chloride 1.5gm B.P. , sodium chloride 2.6gm B.P.	✓	✓
117	phloroglucinol	tablets	phloroglucinol 80mg + trimethylphloroglucinol 80mg	✓	✓
118	ranitidine	injection	25 mg/ ml in 2 ml	✓	✓
		tablets	150 mg; 250 mg	✓	✓
119	sodium phosphate	enema	7.2g /120ml	✓	✓
(18) ANTIVIRAL MEDICINES					
120	<input type="checkbox"/> acyclovir	tablets	200 mg	✓	✓
		syrup	200 mg /5ml	✓	✓
		injection	250mg; 500mg	✓	✓
		cream	5 % w/w	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
121	entecavir (for Hepatitis B)	oral liquid	0.05 mg/5 m	✓	✗
		tablets	0.5mg; 1mg	✓	✗
122	ribavirin	tablets	200mg, 400mg, 600 mg	✓	✓
123	sofosbuvir (for Hepatitis C)	tablets	200mg / 400mg	✓	✗
124	telbivudine	tablets	600 mg	✓	✗
(19) CARDIOVASCULAR MEDICINES					
125	acetylsalicylic acid	tablets (enteric coated)	100 mg	✓	✓
126	adenosine	injection	10 mg /3ml	✓	✓
127	amlodipine (besylate)	tablets	5 mg; 10 mg	✓	✓
128	amlodipine + valsartan + hydrochlorothiazide	tablets	10mg + 160mg + 25mg	✓	✗
129	amiodarone (HCl)	injection	150 mg /ml	✓	✓
		tablets	200 mg	✓	✓
130	☐ bisoprolol	tablets	2.5 mg; 5 mg	✓	✓
131	captopril	tablets	12.5mg; 25mg	✓	✗
132	carvedilol	tablets	6.25mg; 12.5mg	✓	✓
133	digoxin	tablets	250mcg	✓	✓
		injection	250mcg /ml in 2ml	✓	✓
134	dopamine (hydrochloride)	injection	40 mg/ml in 5ml vial	✓	✓
135	dobutamine (hydrochloride)	injection	50mg/ml in 5ml	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
136	<input type="checkbox"/> enalapril (maleate)	tablets	5mg; 10 mg	✓	✓
137	glyceryl trinitrate	sublingual	500 mcg	✓	✓
		injection	1mg / ml	✓	✗
138	hydralazine (hydrochloride) <i>(For severe PIH only)</i>	injection	20 mg	✓	✓
		tablets	25mg, 50 mg	✓	✓
139	<input type="checkbox"/> isosorbide dinitrate	sublingual	5 mg	✓	✓
140	losartan	tablets	50mg	✓	✓
141	methyldopa <i>(For severe PIH only)</i>	tablets	500 mg	✓	✓
		injection	250 mg	✓	✓
142	propranolol	tablets	10mg, 40mg	✓	✓
143	streptokinase	powder for injection	1.5 million IU	✓	✓
144	<input type="checkbox"/> rosuvastatin	tablets	10mg, 20mg	✓	✓
		tablets	40 mg; 80 mg; 240mg	✓	✓
145	verapamil (hydrochloride)	injection	2.5 mg / ml in 2 ml	✓	✗
(20) DIURETICS					
146	<input type="checkbox"/> furosemide	tablets	20mg, 40 mg	✓	✓
		injection	10 mg	✓	✓
147	<input type="checkbox"/> hydrochlorothiazide	tablets	12.5mg, 25 mg	✓	✓
148	spironolactone	tablets	100 mg	✓	✓






Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
149	spironolactone + furosemide	tablets	25mg + 40mg	✓	X
(21) MEDICINES AFFECTING COAGULATION					
150	clopidogrel	tablets	75mg	✓	X
151	enoxaparin (low molecular weight heparin)	injection	20 mg; 40 mg	✓	✓
152	tranexamic acid	injection	100 mg/ml in 5-ml	✓	✓
		capsules	250mg, 500mg	✓	✓
153	☐ warfarin (sodium)	tablets	2mg, 5 mg	✓	✓
(22) OXYTOCIC & ANTIOXYTOCIC MEDICINES					
154	misoprostol	tablets	200 mcg	✓	✓
155	oxytocin	injection	10 IU in 1-ml	✓	✓
156	nifedipine	softgel capsules	10 mg	✓	✓
(23) MEDICINES ACTING ON RESPIRATORY TRACT					
157	aminophylline	injection	25mg/ml in 10ml	✓	✓
		tablets	100 mg	✓	✓
158	ammonium chloride + chlorpheniramine + menthol + diphenhydramine + sodium citrate	syrup (expectorant)	131.5mg/5ml + 22mg/5ml + 1mg/5ml + 13.5mg/5ml + 55mg/5ml	✓	✓
		Inhaler	50 mcg/actu	✓	✓
160	beclomethasone + albuterol	Inhaler	50mcg/actu + 100mcg/actu	✓	X
161	dextromethorphan + diphenhydramine	syrup (antitussive)	12.5 mg/5ml + 12.5 mg/5ml	✓	✓
162	ipratropium (bromide)	inhaler	50 mcg/actu	✓	X

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
163	☐ salbutamol (sulphate) / albuterol	tablets inhaler injection solution for nebulizer	2, 4 mg 100 micrograms 50 micrograms in 5ml 5 mg /ml	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
(24) OPHTHALMIC MEDICINES					
164	acyclovir	eye ointment	3 % w/w	✓	✗
165	☐ ciprofloxacin	eye drops	0.3 %w/v	✓	✗
166	dexamethasone	eye drops	0.1 %w/v	✓	✓
167	fluorescein	eye strips / drops	1 % w/v	✓	✗
168	☐ gentamicin (sulphate)	eye drops	0.30%	✓	✓
169	homatropine (bromide)	eye drops	0.1; 0.5 %	✓	✓
170	moxifloxacin	eye drops	1 %w/v	✓	✗
171	phenylephrine	eye drops	10 %w/v	✓	✗
172	pilocarpine (hydrochloride or nitrate)	eye drops	2%; 4%	✓	✓
173	polymyxin B (sulphate)+ bacitracin zinc	eye ointment	10000IU/g + 500IU/g	✓	✓
174	☐ proparacaine (hydrochloride) ^a	eye drops	0.50 % w/v	✓	✓
175	☐ tetracycline (hydrochloride)	eye ointment	1%	✓	✓
		eye drops	0.50%	✓	✓
176	☐ timolol (hydrogen maleate)	eye drops	0.25%; 0.5%	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
177	tobramycin	ear drops	0.3 %	✓	✓
178	tropicamide	eye drops	1 %w/v	✓	✓
(25) MEDICINES FOR EAR, NOSE & THROAT					
179	boroglycerine <i>(only for wax removing)</i>	ear drops	40%	✓	✓
180	ciprofloxacin	ear drops	0.30%	✓	✓
181	ephedrine	nasal drops	0.5%	✓	✓
182	lignocaine	topical solution	4%	✓	✓
183	polymyxin B sulphate + lignocaine	ear drops	each ml contains polymyxin B (sulphate) 10000 IU/ml; + lignocaine 50mg/ml in 5ml	✓	✓
184	saline nasal drops	nasal drops	0.9%	✓	✓
185	☐ xylometazoline ^a	nasal spray	0.05%	✓	✓
(26) I/V INFUSIONS / PLASMA SUBSTITUTES					
186	dextrose + saline	infusion	5 % + 0.9 % w/v; 5% +0.45%; 4.5%+0.18% (i/5th)	✓	✓
187	glucose / dextrose	infusion	5, 10, %	✓	✓
		ampoule	25%	✓	✓
188	saline	infusion	0.9%	✓	✓
189	mannitol	infusion	20 %w/v	✓	✓
190	plasma expander / substitute	infusion	polygeline 3.5/4% + dextran 6 %w/v,	✓	✓
191	potassium chloride	solution	11.2% in 20-ml ampoule	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
192	<input type="checkbox"/> ringer's lactate (sodium lactate compound solution)	infusion	infusion, 1000ml contains calcium chloride 0.2gm, potassium chloride 0.3gm, sodium chloride 6 gm, sodium lactate 3.1gm, sterile water for injection 1000ml (q.s.)	✓	✓
193	<input type="checkbox"/> ringer's lactate + dextrose (sodium lactate compound solution)	infusion	infusion, 1000ml contains calcium chloride 0.2gm, potassium chloride 0.3gm, sodium chloride 6 gm, sodium lactate 3.1gm, 5% dextrose, sterile water for injection 1000ml (q.s.)	✓	✓
194	sodium bicarbonate	injection	7.5 % isotonic	✓	✓
195	water for injection	ampoule	5 ml, 10 ml	✓	✓
(27) VITAMINS & MINERALS					
196	ascorbic acid	tablets	50, 100, 500 mg	✓	✓
197	B complex (B1, B6 and B12)	tablets	DRAP approved	✓	✓
198	calcium gluconate	injection	100 mg/ml in 10-ml	✓	✓
199	calcium lactate	tablets	500mg, 1gm	✓	✓
200	<input type="checkbox"/> cholecalciferol (vitamin D3)	tablets / oral caps	1.25 mg (50 000 IU)	✓	✓
		injection	5 mg / ml	✓	✓
201	ferrous salt (fumarate)	tablets	equivalent to 60 mg iron	✓	✓
202	folic acid	syrup	equivalent to 25 mg/ml iron	✓	✓
		tablets	0.5, 1mg & 5mg	✓	✓
203	ferrous salt + folic acid (<i>Nutritional supplement for use during pregnancy</i>)	tablets	tablet, equivalent to 60 mg iron + 400 mcg folic acid	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
204	hydroxocobalamin	ampoule	1 mg in 1ml	✓	✓
205	multiple micronutrients	sachet	UNICEF approved	✓	✓
206	multivitamins	tablets	DRAP approved	✓	✓
207	pyridoxine (vitamin B6)	tablets	50mg	✓	✓
208	retinol (vitamin A)	tablets/ capsules	50 000 IU; 100 000 IU; 200 000 IU (as palmitate)	✓	✓
209	vitamin K1 (phytonadione)	injection	10 mg	✓	✓
		tablets	10 mg	✓	✓
210	zinc sulphate (for acute diarrhea with ORS)	dispersible tablets	20 mg	✓	✓
(28) DERMATOLOGICAL MEDICINES					
211	□ benzyl benzoate ^a	lotion	5% & 25%	✓	✓
212	□ betamethasone ^a	cream / ointment	0.1%	✓	✓
213	□ betamethasone + gentamicin ^a	cream / ointment	0.1% + 0.1%		✗
214	□ calamine	lotion	15%	✓	✓
215	clotrimazole	cream	1 % w/w	✓	✓
216	clotrimazole + hydrocortisone	cream	1 % w/w + 1 % w/w	✓	✓
217	fucidic acid	cream	2 % w/w	✓	✓
218	□ hydrocortisone	cream	1%	✓	✓
219	permethrin	cream / lotion	5 %	✓	✓
220	salicylic acid + betamethasone	lotion	3% + 0.5 % w/v	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
221	silver sulphadiazine 	cream	1%	✓	✓
(29) MEDICINES FOR MENTAL & BEHAVIORAL DISORDERS					
222	alprazolam	tablets	0.5 mg	✓	✓
223	amitriptyline (hydrochloride)	tablets	25 mg	✓	✗
224	bromazepam	tablets	3 mg%	✓	✓
225	carbamazepine	tablets	100 mg; 200 mg	✓	✗
226	 chlorpromazine (hydrochloride)	injection	25mg in 2ml	✓	✓
		tablets	100 mg	✓	✓
227	clomipramine (hydrochloride)	tablets	10 mg; 25 mg	✓	✓
		tablets	2, 5mg	✓	✓
228	diazepam	rectal solution	5mg / 5ml	✓	✓
		injection	10mg	✓	✓
229	fluoxetine (hydrochloride)  	tablets	20 mg	✓	✓
230	 fluphenazine	tablets	25 mg	✓	✗
231	haloperidol	tablets	5 mg	✓	✓
232	olanzapine	tablets	5mg, 7.5 mg	✓	✓
233	risperidone	tablets	1mg; 2mg; 3mg	✓	✗
234	sertraline	tablets	50 mg; 100 mg	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
(30) CONTRACEPTIVES					
235	condoms (male)			✓	✓
236	copper T / multiload	IUCD		✓	✓
237	DMPA (medroxyprogesterone acetate)	injection	150 mg/ 1ml	✓	✓
238	estradiol valerate + norethisterone	injection	5 mg + 50 mg	✓	✓
239	□ ethinylloestradiol + □ norethisterone	CO pills	35mcg + 1mg	✓	✓
240	etonogestrel- releasing implant	sub dermal implant	1 rod 68mg each (Use life: 3 years)	✓	✓
241	□ levonorgestrel	PO pills	30 mcg	✓	✓
242	□ levonorgestrel	EC pills	750 mcg (pack of 2)	✓	✓
243	levonorgestrel-releasing implant	sub dermal implant	2 rod 75mg each (Use life: 5 years)	✓	✓
244	norethisterone	injection	200 mg/ml in 1ml	✓	✓
(31) VACCINES & SERA (WHO approved/as per national EPI program)					
245	albumin (human)	infusion	20 % w/v 50ml; 100ml	✓	✓
246	anti-rabies vaccine (PVRV)	single dose vial	>2.5 IU	✓	✓
247	anti-snake venom serum			✓	✓
248	anti D immunoglobulin (human)	single dose vial	250 micrograms	✓	✓
249	BCG vaccine			✓	✓
250	diphtheria antitoxin	vial	10 000 IU; 20 000 IU	✓	✓
251	hepatitis B vaccine			✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
252	immune globulin	vial	95% W/W	✓	✓
253	measles vaccine			✓	✓
254	meningococcal vaccine			✓	✓
255	pentavalent vaccine			✓	✓
256	pneumococcal vaccine			✓	✓
257	polio vaccine (OPV trivalent)/ IPV	oral/ injection		✓	✓
258	rabies immunoglobulin (human)	vial	150 IU/ml	✓	✓
259	rotavirus			✓	✓
260	tetanus toxoid			✓	✓
261	tetanus immunoglobulin (human)	injection	500 IU in vial	✓	✓
(32) PERITONEAL DIALYSIS SOLUTIONS					
262	hemodialysis solution	parenteral solution	of appropriate composition	✓	✗
(33) IMMUNO-SUPPRESSIVE MEDICINES					
263	azathioprine (as sodium salt)	tablets	50 mg	✓	✓
		injection	100 mg in vial	✓	✓
264	methotrexate	capsule	2.5 mg	✓	✗
(34) ANTI-PARKINSONISM MEDICINES					
265	biperiden	tablets	2 mg (hydrochloride)	✓	✓
266	levodopa + carbidopa	tablets	100 + 10 mg; 250 + 25 mg	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
(35) THYROID / ANTITHYROID					
267	thyroxin	tablets	50 mcg	✓	✓
268	propylthiouracil	tablets	50 mg	✓	✓
(36) ANTISEPTICS / DISINFECTANTS					
269	chlorhexidine digluconate <i>(Antiseptic for cord care)</i>	gel	equivalent to 4 % chlorhexidine	✓	✓
270	chloroxylenol	solution		✓	✓
271	hydrogen peroxide	solution		✓	✓
272	povidone-iodine	solution	10 %w/v	✓	✓
		scrub	7.5 % w/v	✓	✓
273	tetrachlorodecaoxide	gel	10 % w/v	✓	✓
		solution	0.052 mg /ml	✓	✓
274	tincture benzoin compound	solution	7.5 % w/v	✓	✓
(37) DISPOSABLE SUPPLIES					
275	absorbent cotton wool	pack	500 gm	✓	✓
276	adhesive tape (hypoallergenic)	roll	1, 2 inch	✓	✓
277	airways disposable	sterile packs	all sizes	✓	✓
278	blood bags (ACDPI) with transfusion sets	sterile packs		✓	✓
279	blood lancets	sterile packs		✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
280	caps disposable	packs	male; female	✓	✓
281	chromic catgut sterile	sterile packs	0, 1, 2; 2/0, 3/0, 4/0	✓	✓
282	cord clamps disposable	sterile packs		✓	✓
283	colostomy bag set	sterile packs		✓	✗
284	cotton bandage	roll	6.5 cm x 2 m; 0.5 in – 6 inches	✓	✓
285	crepe bandage	roll	7.5, 10 cm x 2.7 m	✓	✓
286	CVP line	sterile packs	triple lumen	✓	✗
287	ECG paper	roll / pack		✓	✓
288	endotracheal tube (ETT)	sterile packs	set of 12 (different sizes)	✓	✓
289	examination gloves (latex)	pairs	box of 100 (small, medium and large size) [1:2:1]	✓	✓
290	eye pads	sterile packs		✓	✓
291	face masks disposable		all types (N95, ASTM level 1-3, Utility mask)	✓	✓
292	foley's catheter (silicon coated / silicon)	sterile packs	all sizes	✓	✓
293	gowns / aprons disposable	sterile packs		✓	✓
294	I.V sets	sterile packs		✓	✓
295	I.V cannula	sterile packs	16G; 18 G, 20 G, 22 G, 24 G	✓	✓
296	nasogastric (NG) tube	sterile packs	adult size 6; 8; 10; 12; pediatrics size 16; 18; 20	✓	✓
297	nasal oxygen cannula	sterile packs	neonatal; pediatric; adult	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
298	plaster of paris bandage	roll	10 cm, 20 cm x 6 m	✓	✓
299	polypropylene sterile sutures	sterile packs	0, 1/0, 2/0, 3/0, 4/0	✓	✓
300	polyglactin sterile sutures	sterile packs	1; 2; 2/0; 3/0; 4/0; 6/0(8mm)	✓	✓
301	resuscitator bag with mask		adult / pediatric sizes; 0; 1	✓	✓
302	scalp vein set	sterile packs	DRAP approved	✓	✓
303	silk sutures sterile with needle	12 / pack	0, 1, 2/0, 3/0, 4/0; 8/0; 10/0	✓	✓
304	slides glass	sterile packs	25	✓	✓
305	spinal needle	sterile packs	22g; 25G	✓	✓
306	sterile gauze dressing	sterile packs	7.5 x 7.5 cm (10 ply)	✓	✓
307	sterile surgical gloves	pairs	7, 7½, 8	✓	✓
308	suction catheter	sterile packs	different sizes	✓	✓
309	surgical blades (carbon steel)	sterile packs	different sizes – 12; 15; 18; 20	✓	✓
310	syringe (auto disable)	sterile packs	1cc, 5cc	✓	✓
311	syringe disposable	sterile packs	1; 3; 5; 10; 20; 50; 60 cc - (catheter tip)	✓	✓
312	urine bags	sterile packs	1L; 2L; pediatric	✓	✓
313	volumetric chamber (1V burette)	sterile packs	100 ml size <ul style="list-style-type: none"> ▪ 1 bath soap, 50 gram wrapped ▪ 1 apron ▪ 2 paper towel ▪ 2 pairs of latex examination gloves (m) 	✓	✓
314	clean delivery kits	sterile packs		✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
			<ul style="list-style-type: none"> ▪ 1 plastic under sheet (about one square meter) ▪ 1 under pads 60cmx90cm ▪ 2 alcohol pads ▪ 2 packs of sponges (4 sponge) ▪ 1 sterile bulb sucker ▪ 2 sterile umbilical cord clamp ▪ 1 sterile surgical blade ▪ 2 cotton thread (cord ties) ▪ 1 maternity pad ▪ 1 white poly bag for disposal ▪ 1 unbleached dignity drape ▪ 1 instruction sheet 		
(38) DIAGNOSTIC KITS					
315	blood sugar test strips			✓	✓
316	hepatitis kits			✓	✓
317	purified precipitated protein (PPD)		for diagnosis of childhood TB	✓	✓
318	urine test strips			✓	✓
(39) RADIOLOGY MATERIALS & RADIO CONTRAST MEDIA					
319	amidotrizoate	injection	140 to 420 mg iodine /ml in 20 ml	✓	✓
320	barium sulphate	aqueous suspension		✓	✓
321	contrast media for radiography (CT; MRI)	injection		✓	✗
322	film developer	solution / powder	bulk packing	✓	✓
323	film fixer	solution / powder	bulk packing	✓	✓

Sr. #	Generic Drug Name	Form	Strength	Facility	
				DHQ	THQ
324	Iohexol	injection	140 mg to 350 mg iodine/ml in 5-ml; 10 ml; 20-ml ampoules.	✓	✓
325	Iodine	injection	76% w/v in 20ml; 50ml	✓	✓
326	ultrasound gel	tubes		✓	✓
327	ultrasound print paper	roll	110 mm x 20 m	✓	✓
328	X-Ray films	packs	different sizes: 10 x 12; 12 x 15; 8 x 10	✓	✓
(40) DENTAL MATERIALS					
329	disposable dental needles	sterile packs	different sizes	✓	✓
330	glass ionomer cement for filling	packs	powder + liquid + spoon + mixing pad	✓	✓
331	hybrid composite kit	packs	syringes + bond + etching + shade guide	✓	✓
332	disposable pouches for autoclave	packs	small, medium, large	✓	✓
333	dental X-Ray films	packs	3 x 4 cm	✓	✓
334	root canal treatment materials			✓	✓
335	other disposable dental materials			✓	✓



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