

Details and Justification on Free Diagnostic Proposals for PIP 2022-24

1. State is providing diagnostic services to the citizens through 17 District Hospitals, 51 Area Hospitals, 177 Community Health Centres, 1142 Primary Health Centres and 6313 SC-Health and Wellness Centres.
2. State is provided Free Diagnostic services under PPP mode from 2015-2020. After completion of agreement with Service Provider, State is decided to implement the Free Diagnostic Services with manpower and equipment.
3. State Government is issued permission to procure equipment to all the Primary Health Centres, Community Health Centres, Sub-District Hospitals and District Hospitals through NHM funds and State Government funds vide G.O. Rt. No. 13, dt: 10.01.2020 (Annexure – I).
4. Detailed Gap analysis conducted and tenders were called through AP Medical Services and Infrastructure Development Corporation (APMSIDC) for Medical equipment.
5. Equipment required for the Sub Centres is procured under Health & Wellness Centers through HWC funds.
6. Details of Gap analysis, Medical Equipment procured and supplied for the PHCs, CHCs, SDHs, DHs is enclosed at Annexure -II.

7. Further under 15th Finance Commission, funds are allocated for Free Diagnostic Services for PHCs and Sub Centres. Funds allocated for the year 2021-22 and 22-23 is pooled and tenders are called for procurement of Medical Equipment for provision of additional tests in PHCs and Health Sub-centre. List of equipment proposed under 15th Finance Commission Grants for the year 2021-22 and 2022-23 is attached at Annexure-III.
8. Accordingly all the SCs, PHCs, CHCs, SDHs and DHs are saturated with the supply of Medical Equipment required for provision of tests.
9. Tenders are also called for Rate Contract for supply of reagents and chemicals for conducting the tests.
10. For the year 2022-23 proposals were submitted under Free Diagnostic Services for supply of Lab reagent and chemicals to the SC-HWCs, PHCs, CHCs, SDHs and DHs. Total Funds requirement is as follows:

Sl. No.	Type of Facility	No. of Units	Cost per Unit (Rs in lakhs)	Budget per Annum (Rs. In Lakhs)
1	PHC	1142	0.40	5481.60
2	CHC	177	0.60	1274.40
3	AH	51	1.00	612.00
4	DH	17	2.00	408.00
5	HWC	6313	0.03	2272.68
	Total	7700		10048.68

GOVERNMENT OF ANDHRA PRADESH

ABSTRACT

Health, Medical & Family Welfare - Administrative sanction for an amount of Rs.47.11 crores (Rupees forty seven crores and eleven lakhs only) towards procurement of latest diagnostic equipment for the existing 1145 PHCs and 195 CHCs for providing expanded diagnostic tests free of cost to the needy patients - Accorded – Orders - Issued.

HEALTH, MEDICAL & FAMILY WELFARE (H.2) DEPARTMENT

G.O.RT.No. 13

Dated: 10-01-2020

Read:-

From the MD, NHM, Vijayawada e-file bearing C.No . HMF04-26022(31) / 26/2019-NUHM SEC-CHFW (Computer No.1063625) dated:30-12-2019.

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ORDER:

In the reference read above, the Managing Director, NHM, A.P, Vijayawada has informed that for providing expanded diagnostic tests free of cost to the needy patients, it is proposed to procure latest diagnostic equipment for the existing 1145 PHCs and 195 CHCs in the state from the available budget under NHM with an estimated cost of Rs145.25 crores by availing the unspent balance of Rs.98.14 crores of NHM funds and requested to provide balance amount of (145.25-98.14) Rs.47.11 crores for initial budgetary support, to be recouped through savings/availability in FMR code related to Point 1/3 subject to continuance of PPP and outcome of legal process.

2. The Government after careful examination of the matter, hereby accord an administrative sanction for an amount of Rs.47.11 crores (Rupees forty seven crores and eleven lakhs only) towards procurement of latest diagnostic equipment for the existing 1145 PHCs and 195 CHCs for providing expanded diagnostic tests free of cost to the needy patients subject to recoup the amount through savings/availability in FMR code related to Point 1/3.

3. The Managing Director of National Health Mission, A.P., Vijayawada, shall take necessary action in the matter accordingly.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

**Dr. K.S. JAWAHAR REDDY
PRINCIPAL SECRETARY TO GOVERNMENT**

To

The Managing Director of National Health Mission, A.P., Vijayawada.

Copy to :

The Accountant General,A.P.,Vijayawada.

The District Treasury Officer,Guntur.

The Finance (FMU.HM & FW) Department.

The HM& FW(G) Department.

The PS to Hon'ble Minister (HFW&ME).

The P.S. to Prl. Secretary to Government,

HM&FW Department.

SF/SC.

//FORWARDED :: BY ORDER//

SECTION OFFICER

ANNEXURE - II
Free Diagnostic Services - Gap analysis of equipment

Area Hospitals				
Sl. No. (1)	Name of the equipment(2)	Sum of Desired No.(3)	Sum of Existing (4)	Gap (5)
1	3-part Hematology cell counter(analyzer)	27	1	26
2	Alcohol thermometer	27	0	27
3	Autoclave	27	3	25
4	Automated Coagulation analyzer (at least 4channel)	27	0	27
5	Binocular Microscope	81	51	30
6	Binocular Microscope LED	81	9	72
7	Blood bank refrigerator	27	29	0
8	Centrifuge (8 tube/16 tube)	81	44	50
9	Deep freezer (-20 degree Celsius)	27	1	26
10	Digital Hemoglobinometer (Only at samplecollection sites at the health facilities)	27	0	27
11	Digital Thermometer With -50c to +150 cMeasurement Range at Interval Of 0.1 c	27	0	Already indent placed
12	Electrolyte analyzer with indirect ion selective electrode	27	0	27
13	ESR analyzer	27	1	26
14	Fully automated Biochemistry analyzer	27	2	25
15	Glucometer/Colorimeter (Only at sample collection sites at the health facilities for testing Blood sugar)	27	6	23
16	Hot air oven	27	2	25
17	Improved Neubauer chamber/Hemocytometer	54	3	51
18	Incubator	27	4	24
19	Micropipettes of fixed and variable volumes	27	3	24
20	Monopan analytic weighing scale	27	2	25
21	Needle syringe destroyer - Electronic	27	6	21
22	Nucleic Acid Amplification Machine	27	0	27
23	Refrigerator	108	17	91
24	RO plant/Deionizer	27	2	25
25	Rotor/Shaker	27	12	16
26	semi-automated Biochemistry analyzer	27	9	18
27	Table top pH meter-Digital combined electrode	27	0	27
28	Turbidometer	27	0	27
29	Urine analyzer	27	0	27

Community Health Centres				
Sl. No. (1)	Name of the equipment (2)	Required (3)	Existing (4)	Gap (5)
1	Water bath	27	3	24
2	3-part Hematology cell counter (analyzer)	197	15	182
3	Alcohol thermometer	197	2	195
4	Autoclave	197	32	165
5	Automated Coagulation analyzer (at least 4 channel)	197	4	193
6	Binocular Microscope	591	293	298
7	Binocular Microscope LED	591	72	438
8	Blood bank refrigerator	197	73	124
9	Centrifuge (8 tube/16 tube)	591	153	438
10	Deep freezer (-20 degree Celsius)	197	24	173
11	Digital Hemoglobinometer (Only at sample collection sites at the health facilities)	197	4	193
12	Digital Thermometer With -50c to +150 c Measurement Range at Interval Of 0.1 c	197	16	Already indent placed
13	Electrolyte analyzer with indirect ion selective electrode	197	5	192
14	ESR analyzer	394	16	378
15	Fully automated Biochemistry analyzer	197	22	175
16	Glucometer/Colorimeter (Only at sample collection sites at the health facilities for testing Blood sugar)	197	66	131
17	Hot air oven	197	4	193
18	Improved Neubauer chamber/Hemocytometer	394	17	377
19	Incubator	197	12	185
20	Micropipettes of fixed and variable volumes	197	17	180
21	Monopan analytic weighing scale	197	5	192
22	Needle syringe destroyer - Electronic	197	50	147
23	Nucleic Acid Amplification Machine	197	2	195
24	RO plant/Deionizer	197	11	186
25	Rotor/Shaker	197	6	191
26	semi-automated Biochemistry analyzer	197	48	149
27	Table top pH meter-Digital combined electrode	197	1	196
28	Turbidometer	197	1	196
29	Urine analyzer	197	3	194
30	Water bath	197	13	184

District Hospitals				
Sl. No.	Name of the equipment (2)	Required (3)	Available (4)	Gap (5)
1	3 part Hematology analyzer	15	4	11
2	5-part Hematology cell counter (analyzer)	15	3	12
3	Alcohol thermometer	30	0	30
4	Antigen retrieval unit	15	0	15
5	Autoclave	15	5	10
6	Automated Blood Culture/Liquid Media System	15	0	15
7	Automated coagulation analyzer	15	4	11
8	Automated Coagulation analyzer (at least 4 channel)	15	2	13
9	Automated component Processor (Automated plasma separator)	15	4	11
10	Automated Organism Identification and Antimicrobial sensitivity system	15	0	15
11	Automated tissue processor	15	0	15
12	Binocular Microscope	150	207	0
13	Binocular Microscope LED	150	21	129
14	Block wax trimmer	15	0	15
15	Blood bank refrigerator	15	45	0
16	Blood gas analyzer	15	15	0
17	Blood Mixer and Collector	15	4	11
18	Bone cutter with saw	30	0	30
19	Centrifuge (8 tube/16 tube)	90	119	0
20	Cryostat Instrument for Frozen Section	15	0	15
21	Culture hood/Class 1 Biosafety cabinet	15	1	14
22	Cytocentrifuge	15	0	15
23	Deep freezer (-20 degree Celsius)	15	3	12
24	Deep Freezer -80 degree Celsius	15	7	8
25	Dielectric tube sealer	15	10	5
26	Digital Hemoglobinometer (Only at DH sample collection area for emergencies)	30	0	30
27	Digital Thermometer With -50 c to +150 c	15	0	15
28	Electrolyte analyzer with indirect ion selective electrode	15	1	14
29	Electrophoresis machine	15	0	15
30	Embedding Station	15	0	15
31	ESR analyzer	15	0	15
32	Flow cytometer	15	0	15
33	Fluorometer	15	0	15
34	Fully automated Biochemistry analyzer	15	8	7
35	Fully automated Chemiluminescence immunoassay	15	0	15

36	Fully automated ELISA reader and washer	15	9	6
37	Glucometer (Only at DH sample collection area for emergencies)	30	6	24
38	High pressure liquid chromatography(HPLC)	15	0	15
39	Horizontal pre-vacuum autoclave	15	0	15
40	Hot air oven	30	8	22
41	Hot Plate with Digital Temperature Controller	15	1	14
42	Immunofluorescent microscope	15	0	15
43	Immunohistochemistry stainer	15	0	15
44	Improved Neubauer chamber/Hemocytometer	90	0	90
45	Incubator	45	12	33
46	Knife sharpener	30	0	30
47	Laminar air flow Bench (Biosafety cabinet)	15	4	11
48	Laminar flow	15	0	15
49	Liquid Based Cytology System	15	0	15
50	Manual Plasma Expresser	15	4	11
51	Monopan analytic weighing scale	15	1	14
52	Needle syringe destroyer - Electronic	15	9	6
53	Nucleic Acid Amplification Machine	15	0	15
54	Paraffin dispenser	15	0	15
55	Plasma Thawing Bath	15	2	13
56	Platelet Incubator and Platelet Agitator	15	3	12
57	Refrigerated centrifuge	15	5	11
58	Refrigerated water bath (cryobath)	15	2	13
59	Refrigerator	120	37	83
60	RO plant/Deionizer	15	1	14
61	Rotary microtome	15	0	15
62	Rotor/Shaker	15	13	2
63	Slide staining racks	15	0	15
64	Sterile connecting device	15	0	15
65	Table top pH meter-Digital combined electrode	15	0	15
66	Tissue Flootation Bath with Digital Temperature	15	0	15
67	Turbidometer	15	0	15
68	Urine analyzer	15	1	14
69	Water bath	15	7	8
70	Wax embel bath	15	0	15

Primary Health Centres				
1	Binocular Microscope	1143	511	632
2	Binocular Microscope LED	1143	183	960
3	Centrifuge	1143	591	552
4	Colorimeter	1143	155	988
5	Digital Hemoglobinometer	1143	59	1084
6	Glucometer	1143	315	828
7	Hematology analyzer	1143	6	1137
8	Improved Neubauer chamber/Hemocytometer	1143	16	1127
9	Micropipettes of fixed and variable volumes	1143	31	1112
10	Needle syringe destroyer-Electronic	1143	84	1059
11	Rotor/Shaker	1143	2	1141
12	Semiautomated Biochemistry analyzer	1143	6	1137
13	Urine analyzer	1143	4	1139

Urban Primary Health Centers				
1	Binocular Microscope	247	15	232
2	Binocular Microscope LED	247	5	242
3	Centrifuge	247	42	205
4	Colorimeter	247	0	247
5	Digital Hemoglobinometer	247	1	246
6	Glucometer	247	0	247
7	Hematology analyzer	247	19	228
8	Improved Neubauer chamber/Hemocytometer	247	0	247
9	Micropipettes of fixed and variable volumes	247	22	225
10	Needle syringe destroyer-Electronic	247	32	215
11	Rotor/Shaker	247	21	226
12	Semiautomated Biochemistry analyzer	247	20	227
13	Urine analyzer	247	0	247

ANNEXURE - III

15th Finance Commission

Diagnostics Plan - Sub-centre Level

Existing		Proposed for 2021-22 and 2022-23	
Equipment	Tests	Additional Equipment required	Additional Tests
<ol style="list-style-type: none"> 1. B.P. Aparatus 2. HB Meter 3. Rapid kits 	<ol style="list-style-type: none"> 1. Hemo globin (Digital Haemoglobin meter) 2. Urine Test for Pregnancy 3. Urine test for Ph, specific gravity, Leucocyte esterase glucose, bilirubin, urobilinogen, ketone, hemoglobin, protein, nitrite. 4. Blood Sugar 5. Malaria Test 6. HIV (Antibodies to HIV 1 & 2) 7. Dengue 8. Visual Inspection – Acetic Acid 9. Test for Iodine in salt (used for food) 10. Water testing for fecal contamination and Chlorination (Chloroscope) 11. HBs Ag test for Hepatitis B 12. Filariasis (endemic areas only)- FST 	<ol style="list-style-type: none"> 1. ECG 2. Semi-automatic Bio Chemistry Analyser 3. SPO2 (Pulse Oxi Meter) 4. Foetal Doppler 5. Sickling Test in Tribal area (Rapid) 6. Pap smear equipment 	<ol style="list-style-type: none"> 1. ECG 2. Blood Glucose test 3. Blood Urea, 4. Haemoglobin 5. S. Uric acid, 6. S. Albumin, 7. S. Alkaline Phosphatase 8. S. Amylase, 9. S. Bilirubin T&D 10. S. Bilirubin total, 11. S. Creatine, 12. S. Potassium 13. S. Sodium 14. S. Calcium OCPC 15. S. HDL,

Existing		Proposed for 2021-22 and 2022-23	
Equipment	Tests	Additional Equipment required	Additional Tests
	13. Rapid Test kit for Syphilis (TPHA Kits) 14. Sputum for AFB (Sputum cups)		16. S. Total cholesterol, 17. S. Total protein, 18. S. Triglyceride, 19. SGOT 20. SGPT 21. S. Lipase 22. S. Chloride 23. S. CRP 24. D-Dimer 25. Ferritin 26. LDH 27. SPO2 (Pulse Oxi Meter)

15th Finance Commission

Diagnostics Plan - Primary Health Centre Level

Existing		Proposed for 2021-22 and 2022-23	
Equipment	Tests	Additional Equipment required	Tests
1. Digital Hemoglobinometer	1. Hemoglobin		1. ECG
2. Glucometer	2. Blood Group		2. Blood Sugar,
3. Improved Neubauer chamber	3. Human chorionic gonadotropin (HCG) (Urine test for pregnancy)	1. ECG	3. Blood Urea,
4. Binocular Microscope	4. Urine test for pH, specific gravity, leucocyte esterase, glucose, bilirubin, urobilinogen, ketone, protein, nitrite	2. Point Care analyser (T3, T4, TSH)	4. S. Creatinine,
5. Refrigerator	5. Urine Microscopy	3. Indirect ion selective electrolyte analyser	5. S. Bilirubin total,
6. Needle syringe destroyer – Electronic	6. Stool for ova and cyst	4. Spiro meter	6. S. Bilirubin (D&I),
7. Blood collection tubes	7. Test for Dengue	5. ESR Analyser	7. SGOT,
8. Semiautomated Biochemistry analyser	8. MP slide method and Malaria rapid test	6. Foetal Doppler	8. SGPT
9. Hematology analyzer	9. RPR / VDRL test for syphilis	7. IT Equipment (2 Desktops, 2 Printers, Bar code Printers and Barcode scanners)	9. S. Alkaline phosphatase,
10. Urine analyser	10. HIV test (Antibodies 1/2 and HIV 1/2)	8. Tabs – 2	10. S. Total Protein,
11. Centrifuge	11. Hepatitis B surface antigen		11. S. Albumin
12. Colorimeter			12. S. Amylase
13. Improved Neubauer chamber/ Hemocytometer			13. S. Total Cholesterol
			14. S. Triglyceride
			15. S. VLDL
			16. S. HDL
			17. S. LDL

Existing		Proposed for 2021-22 and 2022-23	
Equipment	Tests	Additional Equipment required	Tests
	test 12. Sputum for AFB 13. Typhoid test (IgM) 14. Blood sugar 15. HCV Antibody test (Anti HCV) 16. Bleeding time 17. Clotting time 18. Visual inspection Acetic Acid (VIA) 19. ESR		18. S. Uric acid 19. S. LDH 20. RA factor 21. S. CRP 22. RBC count, WBC count (differential count, total count) and platelets count 23. Thyroid profile (T3, T4 and TSH) 24. S. Sodium 25. S. Potassium 26. S. ionised Calcium 27. S. Chloride 28. S. Magnesium 29. ESR

15th Finance Commission

Diagnostics Plan - Urban Primary Health Centre Level

Existing		Proposed for 2021-22 and 2022-23	
Equipment	Tests	Additional Equipment required	Tests
<ol style="list-style-type: none"> 1. Semi Automatic Biochemistry Analyzer 2. 3-Part differential hematology analyzer 3. Digital Hemoglobinometer 4. Binocular Microscope 5. Benchtop Centrifuge-8 tube 6. Blood Mixer 7. Needle syringe destroyer— Electronic 8. ECG machine 	<ol style="list-style-type: none"> 1. ECG 2. Hemoglobin 3. Blood Group 4. Human chorionic gonadotropin (HCG) (Urie test for pregnancy) 5. Urine test for ph, specific gravity, leucocyte esterase, glucose, bilirubin, urobilinogen, ketone, protein, nitrite 6. Urine Microscopy 7. Stool for ova and cyst 8. Test for Dengue 9. MP slide method and Malaria rapid test 10. RPR / VDRL test for syphilis 11. HIV test (Antibodies 'Ix and HIV) 12. Hepatitis B surface antigen test 13. Sputum for AFB 14. Typhoid test (IgM) 15. Blood sugar 16. HCV Antibody test (Anti HCV) 17. Bleeding time 18. Clotting time 19. Visual inspection Acetic Acid (VIA) 20. ESR 	<ol style="list-style-type: none"> 1. Ultrasound machine @ 1 per 6 UPHCs 2. Point care Analyzer (T3, T4, TSH) 3. IT equipment Barcode Reader – 2, Barcode Scanner – 2 and 2 Tabs 	<ol style="list-style-type: none"> 1. Blood Sugar, 2. Blood Urea, 3. S. Creatinine, 4. S. Billirubin total, 5. S. Bilirubin (D&I), 6. SGOT, 7. SGPT 9. S. Alkaline phosphatase, 9. S. Total Protein, 10. S. Albumin 11. S. Amylase 12. S. Total Cholesterol 13. S. Triglyceride 14. S. VLDL 15. S. HDL 16. S. LDL 17. S. Uric acid 18. S. LDH 19. RA factor 20. S. CRP 21. RBC count, WBC count (differential count, total count) and platelets count 22. Thyroid profile (T3, T4 and TSH) 23. S. Sodium 24. S. Potassium 25. S. ionised Calcium 26. S. Chloride 27. S. Magnesium 28. ESR 29. Ultrasound of different parts.

Recurring Reagent required for PHC

Sl.no	Name of the equipment	Name of the reagent	Size of Pack	Price of each of pack	No of packs	No of Tests	Total price
1	Digital HB meter	Strip	100 strips	13	5	500	6500
2	Glucometer	Strip	100 strips	12	5	500	6000
3	Semi bio chem analyzer	HB(drabkins reagent)	5000ml	840	1	1000	840
		glucose	1000ml	500	1	1000	500
		Blood urea	50ml	750	1	100	750
		Serum creatinin	100ml	140	1	100	140
		s.uric acid	50ml	320	1	100	320
		T.Cholesterol	250ml	1150	1	500	500
		S.Triglycerides	200ml	2100	1	400	2100
		S.bilirubin(T)	100ml	200	1	200	200
		S.bilirubin(D)	100ml	200	1	200	200
		SGOT	200ml	900	1	100	900
		SGPT	200ml	900	1	100	900
		Total proteins	200ml	200	1	400	200
		S.Albumin	100ml	400	1	400	200
		S.Sodium	25 tests	700	1	50	700
		S.Potassium	25 test	700	1	50	700
		S.Calcium	50ml	250	1	100	250
4	Hematology analyzer	Diluents(20L) lyse(500ml) cleaner(100ml)	1 pack	3000	2	1000	6000
5	Urine analyzer	Strips	100strips	10	10	1000	10000
6	colorimeter	HB	1 kit	800	1	100	800
		b.Sugars	1 kit	500	1	500	500
		Bilirubin	1 kit	800	1	200	800
						Total	40,000

Community health centre

Sl.no	Name of the equipment	Name of the reagent	Size of Pack	Price of each of pack	No of packs	No of Tests	Total price
1	Digital HB meter	Strip	100 strips	13/strip	5	500	6500
2	Glucometer	Strip	100 strips	12/strip	5	500	6000
3	Semi bio chem analyzer	HB(drabkins reagent)	5000ml	840	1	1000	840
		glucose	1000ml	500	1	1000	500

		Blood urea	50ml	700	1	100	700
		Serum creatinin	100ml	140	1	100	140
		s.uric acid	50ml	320	1	100	320
		T.Cholesterol	100ml	500	1	200	500
		S.Triglycerides	200ml	2100	1	400	2100
		S.bilirubin(T)	100ml	200	1	200	200
		S.bilirubin(D)	100ml	200	1	200	200
		SGOT	200ml	900	1	100	900
		SGPT	200ml	900	1	100	900
		Total proteins	200ml	200	1	400	200
		S.Albumin	100ml	400	1	400	200
4	Hematology analyzer	Diluents(20L) lyse(500ml) cleaner(100ml)	1 pack	3000	2	1000	6000
5	Urine analyzer	Strips	50strips	10	1	500	500
6	colorimeter	HB	1 kit	400	1	50	400
		b.Sugars	1 kit	500	1	500	500
		Bilirubin	1 kit	1000	1	200	1000
		urea	1 kit	500	1	50	500
		creatinin	1kit	600	1	50	600
		Uric acid	1kit	800	1	100	800
		HDL	1 kit	2500	1	100	2500
7	Coagulation analyzer	PT	5ml	1000	1	50	1000
		APTT	5ml	1000	1	50	1000
8	Electrolyte analyzer	Kit	400 test pack	8000	1	400	8000
9	ESR analyzer	tube	100 tubes	20/tube	1	100	2000
10	NAT	Reagent	10 test pack	800/test	1	10	8000
11	Turbidometer	Urine for microalbumin	60ml	7000	1	90	7000
						Total	60000

Area hospital

Sl.no	Name of the equipment	Name of the reagent	Size of Pack	Price of each of pack	No of packs	No of Tests	Total price
1	Digital HB meter	Strip	100 strips	13	7	700	9100
2	Glucometer	Strip	100 strips	12	7	700	8400
3	Semi biochem analyzer	HB(drabkins reagent)	5000ml	840	1	1000	840

District hospital

Sl.no	Name of the equipment	Name of the reagent	Size of Pack	Price of each of pack	No of packs	No of Tests	Total price
1	Digital HB meter	Strip	100 strips	13	10	1000	13000
2	Glucometer	Strip	100 strips	12	10	1000	12000
3	Semi biochem analyzer	HB(drabkins reagent)	5000ml	840	1	1000	840
		glucose	1000ml	500	1	1000	500
		Blood urea	50ml	750	1	100	750
		Serum creatinin	100ml	140	1	100	140
		s.uric acid	50ml	320	1	100	320
		T.Cholesterol	100ml	500	1	200	500
		S.Triglycerides	100ml	1100	1	200	1100
		S.bilirubin(T)	100ml	200	1	200	200
		S.bilirubin(D)	100ml	200	1	200	200
		SGOT	200ml	900	1	100	900
		SGPT	200ml	900	1	100	900
		Total proteins	200ml	200	1	400	200
		S.Albumin	100ml	400	1	400	200
		S.Sodium	25 tests	700	1	50	700
		HbA1C	50ml	15000	1	100	15000
4	Hematology analyzer	Diluents(20L) lyse(500ml) cleaner(100ml)	1 pack	3000	2	1000	6000
5	Urine analyzer	Strips	100strips	10	10	1000	10000
6	colorimeter	HDL	1 kit	2500	1	100	2500
7	Coagulation analyzer	PT	5ml	1000	1	50	1000
		APTT	5ml	1000	1	50	1000
		D dimers	Kit	12000	1	60	12000
8	Electrolyte analyzer	Kit	100 test pack	2000	1	100	2000
9	ESR analyzer	tube	100 tubes	20/tube	1	50	1000
10	NAT	Reagent	10 test pack	800/test	1	10	8000
11	Turbidometer	Urine for microalbumin	60ml	7000	1	90	7000
		RF factor	5T	1500/test	1	5	1500
		CRP	5T	1500/test	1	5	1500
12	Automatic organic identification and microbial sensitivity	Kit	1 kit	300/kit	50	50	15000
13	Automatic culture	Bottles	bottle	200/bottle	50	50	10000

