State Health Resource Centre Chhattisgarh



State Health Training Centre Building, Kalibadi, Raipur - 492001, Chhattisgarh, India Tel : 0771-2236175, Tele-Fax: 0771-2236104. e-mail: shrc.cg@gmail.com, Web : www.shsrc.org

पत्र क्रमॉंक / **\S44** / HSS / SHRC / 2023 प्रति, रायपुर, दिनाँक : 12 10 2023

अपर मुख्य सचिव (छ.ग. शासन) स्वास्थ्य एवं परिवार कल्याण विभाग मंत्रालय, महानदी भवन, अटल नगर नवा रायपुर (छत्तीसगढ़) 492002

विषयः--- राज्य के सामुदायिक स्वास्थ्य केन्द्रों (CHCs) में महत्वपूर्ण डॉयग्नोस्टिक सेवाओं की उपलब्धता पर अध्ययन के प्रतिवेदन बाबत्।

विषयांतर्गत लेख है कि छत्तीसगढ़ की शासकीय स्वास्थ्य संस्थाओं में उच्च गुणवत्ता की उपचार सेवाएँ प्रदाय करने हेतु उनमें डॉयग्नोस्टिक सेवाओं की उपलब्धता बढ़ाएँ जाने की आवश्यकता है। वर्तमान में अधिकांश जिला अस्पतालों में मूलभूत जाँच सेवाएँ उपलब्ध हैं किन्तु सामुदायिक स्वास्थ्य केन्द्र (CHC) स्तर पर डॉयग्नोस्टिक सेवाओं की उपलब्धता पर ध्यान केन्द्रित किए जाने की आवश्यकता है।

उपरोक्त संदर्भ में राज्य के सामुदायिक स्वास्थ्य केन्द्रों (CHCs) में महत्वपूर्ण व मूलभूत डॉयग्नोस्टिक सेवाओं की उपलब्धता पर राज्य स्वास्थ्य संसाधन केन्द्र द्वारा एक अध्ययन किया गया है।

उपरोक्त अध्ययन का प्रतिवेदन अवलोकनार्थ एवं अग्रिम चर्चा हेतू संलग्न कर प्रेषित है।

संलग्नः-उपरोक्तानुसार।

MM/2110/23

कार्यकारी संचालक राज्य स्वास्थ्य संसाधन केन्द्र छत्तीसगढ़

रायपुर, दिनाँक :

पत्र क्रमॉंक / /HSS / SHRC / 2023 प्रतिलिपि :--

संचालक, स्वास्थ्य सेवाएँ, संचालनालय, स्वास्थ्य भवन, अटल नगर, नवा रायपुर, छ.ग. की ओर सूचनार्थ।
 मिशन संचालक, राष्ट्रीय स्वास्थ्य मिशन, स्वास्थ्य भवन, अटल नगर, नवा रायपुर, छ.ग. की ओर सूचनार्थ।

कार्यकारी संचालक राज्य स्वास्थ्य संसाधन केन्द्र छत्तीसगढ

Availability of Essential Diagnostics Tests in Block Public Health Laboratories (CHC) of Chhattisgarh Assessment Report - September 2023 Prepared by: State Health Resource Centre, Chhattisgarh

Summary of findings:

- 31 CHCs were visited in September 2023 to examine availability of 21 most important tests.
- On an average, the CHCs are able to provide 13 out of the 21 important tests examined.
- All the CHCs were doing Complete Blood Count (CBC) and Sickle cell screening by solubility test. The functionality of other basic tests was lower. Renal function test (RFT), Liver test (LFT) and Lipid profile are conducted in 65%, 65% and 48% of the sampled CHCs. Availability of Electrophoresis test is very poor in most CHCs.
- In terms of volume (no. of patients tested), most CHCs are yet to achieve closer to the required number of tests. 43% of the CHCs achieve half of the expected volume for CBC test. For RFT and LFT, only 15% of CHCs were achieving half of the volume. Only 8% of CHCs were achieving half of the benchmark volume for Lipid profile tests.
- Maximum CHCs have CBC and semi-auto analyzer machines for conducting the basic tests. Last year CGMSC supplied reagents reached 44% of CHCs in case of CBC. But the other important reagents (LFT, RFT and Lipid profile) reached around 30% of the CHCs. This shows that even when reagents became available in CGMSC, many CHCs were not aware of it and did not indent. In some districts, the CMHO stores indented on behalf of CHCs. But there were a large number of CHCs where neither the CMHO store or the CHC indented reagents.
- Among 31 visited CHCs none of them were doing ultrasonography, though USG machine was available in 4 CHCs (Kartala, Kurud, Pathariya, Akaltara). X-ray was conducted in 30 CHCs.

Suggestions for improvement:

• The department should notify an Essential Diagnostic List for each type of health facility including CHCs.

- Reports of no. of tests done need to be taken in a standard format. Otherwise, there is a lot of confusion about the type of tests a facility should do.
- All the CHCs must indent the reagents directly from CGMSC through DPDMIS portal. For this, instructions need to go from DHS level to all districts.
- All the CGMSC warehouses should maintain the buffer stock of all the diagnostic reagents so that when any CHC indents, CGMSC can supply. The availability of reagents at CGMSC warehouse and at health facility level should be monitored from state level using dashboard and it should be and reviewed weekly.
- Online orientation of doctors can be done on rational use of diagnostic services in their clinical course of action.
- A majority of the machines belong to a single brand and CGMSC is able to provide reagents for that. CHCs which have a different brand machine can be given funds to do local purchase the reagents.
- There should be a system for getting monthly reports of each type of test done by all government health facilities. The functionality and volume of tests done should be reviewed monthly. Availability of diagnostic tests at CHC level should be covered in review of districts.
- There should a clear responsibility allocated to a Deputy Director at state level for diagnostic services. Similarly, each district should have a district nodal officer for diagnostic services. Biomedical engineers posted at districts should be made responsible to assist the nodal officers in monitoring these services.

Main Report

Background: Essential diagnostics is a key service that is needed to provide good quality and rational healthcare. The earlier assessments showed that almost all District Hospitals were providing most of the essential diagnostic tests. The situation of Community Health Centers (CHCs) however was found to be very poor in providing diagnostic tests. Though the required machines were available, there was shortage of reagents.

The assessments mentioned above are more than one year old now. Meanwhile, DoHFW has made efforts to improve diagnostics by improving the availability of reagents through CGMSC. Therefore, the present analysis was done to examine the current availability of important diagnostics tests in a sample number of CHCs.

Objectives: This assessment is meant to answer the following specific questions:

- 1. Whether the important tests are being performed in CHCs?
- 2. How adequate is the volume of various tests provided?
- 3. What are the likely reasons for the gaps in performance?

Data Collection: This analysis focuses on 21 of the basic diagnostic tests. Though a CHC is expected to conduct more than 50 tests, focusing on a smaller number of important tests was essential so that the situation can be assessed quantitatively for each test and in a manner that it can be compared with future assessments.

Data was collected by SHRC from 31 CHCs spread across the state. In addition, reagent procurement and distribution data of CGMSC was analysed.

1. Availability of important diagnostic tests in CHCs

On an average, 13 out of the 21 important tests are available at CHC level.

Most CHCs are able to provide the Complete Blood Count (CBC) test and solubility test for sickle cell screening. These are followed by ESR and RFT (S. Creatine, S. Uric acid and Blood urea) which are provided by around 65% CHCs. Then come the Liver Function Tests (SGPT/SGOT, S. Bilirubin T/D) and some of the Lipid Profile tests (Total cholesterol) that are available in around 60% and 50% of CHCs respectively.

Most of the CHCs are not able to provide Electrophoresis test, HbA1C, Thyroid function test and S. amylase. Regarding diagnostics for Sickle Cell, while the screening test (Solubility test) is available in all CHCs, the lack of absence of confirmatory test (Electrophoresis) in most CHCs is an issue of concern. Table 1 provides a picture of availability of key tests.

| True of testing | No. of CHCs (N=31) | CHCs (N=31) | |
|-------------------------|-----------------------|-----------------------|--|
| Type of testing | Providing the service | Providing the service | |
| Complete Blood Count | 30 | 97% | |
| ESR | 20 | 65% | |
| Blood Urea | 20 | 65% | |
| S. Uric Acid | 20 | 65% | |
| S. Creatinine | 21 | 68% | |
| S. Alkaline Phosphatase | 16 | 52% | |
| S. Total Protein | 18 | 58% | |
| S. Albumin | 18 | 58% | |
| S.Bilirubin (T) | 20 | 65% | |
| S.Bilirubin (D) | 20 | 65% | |
| S.SGPT/SGOT | 19 | 61% | |
| S. Total Cholesterol | 15 | 48% | |
| S. Triglyceride | 13 | 42% | |
| S.VLDL | 9 | 29% | |
| S.HDL | 13 | 42% | |
| S.LDL | 12 | 39% | |
| S. Amylase | 7 | 23% | |
| HbA1c | 5 | 16% | |
| Solubility test | 29 | 94% | |
| Electrophoresis | 8 | 26% | |
| Thyroid function test | 5 | 16% | |

Table 1 – Whether key diagnostic services being provided at CHCs

Table 2 provides the status of each CHC regarding the tests not being performed.

Table 2: CHC wise status of 21 important diagnostic tests

| СНС | Out of 21 important diagnostic tests performed at CHC | Name of test not performed at CHC |
|------------------|---|---|
| CHC Ramanujnagar | 21 | Nil (all the tests are performed) |
| CHC Kanker | 21 | Nil (all the tests are performed) |
| CHC SHANKARGARH | 9 | Electrophoresis, HbA1C, Alkaline Phosphatase, S. Albumin, S.Total protein, Lipid profile, S. Amylase, Thyroid function test |
| CHC Rajpur | 16 | Electrophoresis, HbA1C, Alkaline Phosphatase, S. Amylase, Thyroid function test |
| CHC KURUD | 19 | HbA1c,Thyroid Function Test |
| CHC BHAKARA | 0 | Electrophoresis,HbA1C, Alkaline, Phosphatase, Renal Function Test, Liver Function Test, Lipid profile, S. Amylase, Thyroid function test |
| CHC CHHURIYA | 2 | Electrophoresis,HbA1C,RFT,LFT,Lipid Profile, Serum Amylase, S.Alkaline Phosphatase, Thyroid Function Test. |
| CHC DONGARGAON | 17 | Electrophoresis, HbA1C , S. Amylase, Thyroid function test |
| CHC KARTALA | 21 | Nil (all the test are performed) |
| CHC PALI | 18 | Electrophoresis, HbA1C, Thyroid function test |
| CHC CHHURA | 19 | HbA1c,Thyroid Function Test |
| CHC MAINPUR | 18 | Electrophoresis, HbA1C, Thyroid function test |
| CHC Rajim | 18 | HbA1C, Thyroid function test, Serum Amylase |

| CHC LORMI | 17 | Electrophoresis, HbA1C , S. Amylase, Thyroid function test |
|--------------|----|--|
| CHC Patharia | 17 | Electrophoresis, HbA1C, Thyroid function test, ESR |
| CHC PATNA | 9 | Electrophoresis, HbA1C, Thyroid function test, ESR, Lipid Profile, Serum Amylase, Total protein, Serum Albumin |
| CHC SONHAT | 7 | Electrophoresis, HbA1C, Thyroid function test, ESR, Lipid Profile, Serum Amylase, Total protein, Serum Albumin, SGOT/SGPT, Alkaline Phosphatase |
| CHC AKALTARA | 2 | Electrophoresis, HbA1C, RFT, LFT, Lipid Profile, Serum Amylase, S. Alkaline Phosphatase, Thyroid Function Test. |
| CHC NAVGARH | 1 | Electrophoresis,HbA1C,RFT,LFT,S.Alkaline Phosphatase, Serum Amylase, Lipid Profile, Serum Amylase, Thyroid Function Test. |
| CHC Loing | 18 | Electrophoresis, HbA1C, Thyroid function test |
| CHC PUSSORE | 18 | Electrophoresis, HbA1C, Thyroid function test |
| CHC NANGOOR | 19 | Electrophoresis, ESR |
| CHC BASTAR | 19 | Electrophoresis, ESR |
| СНС КОТА | 14 | Electrophoresis, HbA1C ,ESR Thyroid function test, LFT |
| CHC Ratanpur | 15 | ESR,HbA1C,Electrophoresis,S.Alkaline Phosphatase, S.Amylase, Thyroid Function Test |
| CHC BODLA | 2 | Electrophoresis,HbA1C,RFT,LFT,Lipid Profile, Serum Amylase, S.Alkaline Phosphatase, Thyroid Function Test. |
| CHC Pipariya | 2 | Electrophoresis,HbA1C,RFT,LFT,Lipid Profile, Serum Amylase, S.Alkaline Phosphatase, Thyroid Function Test. |
| CHC TILDA | 11 | ESR,Electrophoresis,HbA1c,Lipid Profile, Thyroid Function Test, Serum Amylase |
| CHC Dharsiwa | 11 | ESR, Electrophoresis ,Lipid Profile, Thyroid Function Test, Serum Amylase |
| CHC LODAM | 19 | Thyroid Function Test, HbA1C |
| CHC ODGI | 1 | Electrophoresis, HbA1C, RFT, LFT, Lipid Profile, Serum, Amylase, Alkaline Phosphatase, Thyroid Function Test, ESR. |

2. Volume of key tests done by Community Health Centers (CHCs) - Is it adequate?

A benchmark volume of tests was taken for CHCs based on their OPD and IPD numbers. It was found that a very small number of CHCs were able to reach the benchmark. So we took 50% of the above benchmark and found the number of CHCs that were able to achieve it.

The best situation was in case of solubility test where 69% of CHCs were doing in enough numbers. Then came CBC where 43% CHCs could reach half of the benchmark. The other tests were being done in very low numbers.

| Type of testing | Expected number of tests per month in CHC | Average no. of test done in previous month | CHCs achieving at least 50% of the expected volume |
|-------------------------|---|--|--|
| Complete Blood Count | 300 | 238 | 43% |
| ESR | 200 | 25 | 5% |
| Blood Urea | 150 | 40 | 15% |
| S. Uric Acid | 150 | 33. | 10% |
| S. Creatinine | 150 | 38 | 14% |
| S. Alkaline Phosphatase | 150 | 46 | 19% |
| S. Total Protein | 150 | 43 | 22% |
| S. Albumin | 150 | 65 | 28% |
| S.Bilirubin (T) | 150 | 30 | 10% |
| S.Bilirubin (D) | 150 | 29 | 10% |
| S.SGPT/SGOT | 150 | 42 | 21% |
| S. Total Cholesterol | 80 | 23 | 7% |
| S. Triglyceride | 80 | 26 | 8% |
| S.VLDL | 80 | 5 | 0% |
| S.HDL | 80 | 25 | 8% |
| S.LDL | 80 | 27 | 8% |
| S. Amylase | 80 | 23 | 14% |
| HbA1c | 150 | 8 | 0% |

Table 3: Volume of Tests conducted by CHCs (average no. of patients tested per month)

7

| Solubility test | 250 | 227 | 69% |
|-----------------------|-----|-----|-----|
| Electrophoresis | 100 | 51 | 38% |
| Thyroid function test | 50 | 6 | 20% |

2. What are the likely reasons for gaps in performance at CHCs?

The case of CBC in CHCs: All CHCs examined here had an automated 3-part CBC except CHC Bhakara and except CHC Odgi, District Surajpur, other CHCs were conducting CBC tests. A similar assessment done two years back also showed that most of the CHCs had CBC machine but only 30% of them were doing CBC test. What made the difference? The improvement is due to better supply of reagent for CBC (lyse and diluent) by CGMSC, directly to CHCs instead of the earlier practice of routing them through the CMHO stores.

The case of biochemistry tests in CHCs: Most of the CHCs, 26 of them also had a semi-automated biochemistry analyzer. But around two-third (65%) of CHCs are conducting Kidney (RFT) and Liver (LFT) tests and almost half (48%) of the CHCs are conducting lipid profile test. The volume covered by CHCs for RFT and LFT tests is only 15% and 10% of the expected volume respectively. The main reason for this gap is the unavailability of biochemistry reagents at CHCs. Although CGMSC had procured the reagents but around half of the CHCs did not indent to receive the reagents.

How Many Lab technicians are present?

As per IPHS standards in FRU-CHC posting of 5 LTs is essential and Non-FRU-CHC should have 4 LTs. Lab. technician status is mentioned in the table below-

| No. of Lab Technician | No. of CHC (Total N= 31) | |
|-----------------------|--------------------------|--|
| <3 | 7 (23%) | |
| 3 | 15 (48%) | |
| >3 | 9 (29%) | |

How many CHCs were supplied important reagents by CGMSC?

The CHC wise status of important reagents issued by CGMSC in last six months are given in Table 4. Reagents were indented and supplied in two ways – a) directly to CHCs b) supplied to CMHO store. Where the reagent supply was to CMHO store, there was a possibility that some of the CHCs can get missed. But the biggest gap was that in many districts neither the CMHO store or the CHCs directly indented to receive the reagents from CGMSC. The analysis from the table 4 shows that CGMSC has supplied many of the important reagents to less than 35% of the CHCs in the state.

| Reagent Name | Total No of CHCs supplied reagents by CGMSC | Quantity Issued | Proportion of CHCs supplied reagents by CGMSC (out of 193 CHCs) |
|--------------------|---|--------------------|---|
| Albumin | 56 | 508 | 29% |
| Alkaline Phosphate | 39 | 171 | 20% |
| Amylase | 53 | 499 | 27% |
| Bilirubin Kit | 57 | 810 | 30% |
| Blood urea | 57 | 807 | 30% |
| Cholesterol | 38 | 168 | 20% |
| HDL Cholesterol | 58 | 820 | 30% |
| Potassium | 58 | 530 | 30% |
| SGOT | 58 | 825 | 30% |
| SGPT | 63 | 845 | 33% |
| Sr. Creatinine | 56 | 804 | 29% |
| Triglyceride | 62 | 841 | 32% |
| Uric acid | 62 | 831 | 32% |
| CBC | 34 | 441 | 18% |
| HBA1C Level | 38 | 56 | 20% |

Table 4: Proportion of CHCs supplied important reagents by CGMSC (Out of 193 CHCs)

There are a few CHCs conducting biochemistry tests although they have not received the reagents from CGMSC. They have arranged it through local purchase done at district or block level.

User fee: Out of 31 visited CHCs still 10 CHCs are charging user fee to patients. The charges vary from place to place. Charges for some tests are quite high. E.g. some CHCs were charging Rs.70 for CBC, Rs.50 for HbsAg, Rs.40 for the Widal test. Most hospitals claim that they usually waive off the charges for Below Poverty Line (BPL) patients if they bring their ration cards. The actual practice followed for waiving off charges however is not consistent and many times the poor have to either pay or forego the tests. The decision to provide the services free to all patients in government hospitals is likely to help the poor in utilizing the services.

Annexures - Detailed data on reagents supplied by CGMSC and the current stock at CGMSC

Facility wise details of important reagents issued by CGMSC in last six months (April- September 2023) are given in Table 5. In this table reagents supplied to number of CHMO store, DH, CHC and UPHC/PHC is given.

| S.NO | Reagent Name | Name of Facility | Total No of Facility | Quantity Issued |
|----------|--------------------|------------------|----------------------|-----------------|
| 1 | Albumin | Medical College | 2 | 5 |
| | | DH | 9 | 108 |
| | | CMHO store | 16 | 730 |
| | | СНС | 56 | 508 |
| | | Civil hospital | 4 | 9 |
| | | РНС | 831 | 2064 |
| ed table | | UPHC | 70 | 186 |
| | | UHWC | 1 | 2 |
| | | Total | 989 | 3612 |
| 2 | Alkaline Phosphate | Medical College | 1 | 4 |
| | | CMHO store | 6 | 23 |

 Table 5: Facility wise details of important reagents issued by CGMSC in last six months (As on 6th Oct 2023)

| | | DH | 28 | 242 |
|----------------------|----------------------|-------------------|-----|------|
| | | Civil hospital | 2 | 8 |
| | | СНС | 39 | 171 |
| | | РНС | 1 | 1 |
| | | Total | 77 | 449 |
| 3 | Amylase | District Hospital | 7 | 40 |
| | | CMHO store | 13 | 686 |
| | | Civil hospital | 4 | 9 |
| | | СНС | 53 | 499 |
| | | РНС | 814 | 2033 |
| | | UPHC | 70 | 189 |
| | | UHWC | 1 | 2 |
| | | Total | 962 | 3458 |
| 4 Bilirubin Kit dire | Bilirubin Kit direct | Medical College | 4 | 38 |
| | | District Hospital | 11 | 242 |
| | | CMHO store | 16 | 1138 |
| - | | СНС | 57 | 810 |
| | | Civil Hospital | 4 | 14 |
| | | РНС | 820 | 3215 |
| | | UPHC | 70 | 304 |
| | | UHWC | 1 | 2 |
| | | Total | 983 | 5763 |
| I | Blood urea | Medical College | 4 | 39 |
| | | District Hospital | 8 | 172 |
| | | CMHO store | 14 | 1129 |
| | | Civil Hospital | 4 | 14 |
| | | СНС | 57 | 807 |
| | | РНС | 819 | 3244 |
| | | UPHC | 70 | 313 |
| | | UHWC | 1 | 2 |

| | | Total | 977 | 5720 |
|---|----------------|-------------------|-----|------|
| 6 | Cholestrol | Medical College | 1 | 4 |
| | | District Hospital | 24 | 188 |
| | | CMHO store | 6 | 40 |
| | | Civil Hospital | 2 | 8 |
| 1 | | СНС | 38 | 168 |
| | | РНС | 1 | 1 |
| | | Total | 72 | 409 |
| 7 | HDL Cholestrol | District Hospital | 12 | 154 |
| | | CMHO store | 15 | 1139 |
| | | Civil Hospital | 3 | 10 |
| | | СНС | 58 | 820 |
| | | РНС | 774 | 3004 |
| | | UPHC | 68 | 300 |
| | | UHWC | 1 | 2 |
| | | Total | 931 | 5429 |
| 8 | Potassium | CMHO store | 13 | 698 |
| | | District Hospital | 10 | 75 |
| | | CS | 4 | 9 |
| | | СНС | 58 | 530 |
| | | РНС | 819 | 2041 |
| | | UPHC | 70 | 189 |
| | | UHWC | 1 | 2 |
| | | Total | 975 | 3544 |
| 9 | SGOT | Medical College | 4 | 39 |
| | | District Hospital | 12 | 184 |
| | | CMHO store | 15 | 1144 |
| | | Civil Hospital | 4 | 14 |
| | | СНС | 58 | 825 |
| | | РНС | 821 | 3194 |

and the second second

| | UPHC | 70 | 305 |
|-------------------|-------------------|------|------|
| | UHWC | 1 | 2 |
| | Total | 985 | 5707 |
| 10 SGPT | Medical College | 4 | 39 |
| | District Hospital | 15 | 224 |
| | CMHO store | • 20 | 1415 |
| | Civil Hospital | 4 | 14 |
| | СНС | 63 | 845 |
| | РНС | 822 | 3212 |
| | UPHC | 70 | 299 |
| | UHWC | 1 | 2 |
| | Total | 999 | 6050 |
| 11 Sr. Creatinine | Medical college | 4 | 39 |
| | DH | 10 | 262 |
| | CMHO store | 15 | 1139 |
| | Civil | 4 | 14 |
| | СНС | 56 | 804 |
| | РНС | 820 | 3236 |
| | UPHC | 70 | 313 |
| | UHWC | 1 | 2 |
| | Total | 980 | 5809 |
| 12 Triglyceride | District Hospital | 16 | 191 |
| | CMHO store | 21 | 1335 |
| | CS | 3 | 10 |
| | СНС | 62 | 841 |
| | РНС | 772 | 3000 |
| | UPHC | 68 | 300 |
| | UHWC | 1 | 2 |
| | Total | 943 | 5679 |
| 13 Uric acid | Medical College | 2 | 10 |

| | | District hospital | 13 | 217 |
|----|---------------|-------------------|-----|------|
| | | CMHO store | 20 | 1437 |
| | | CS | 4 | 14 |
| | | СНС | 62 | 831 |
| | | РНС | 822 | 3240 |
| | | UPHC | 70 | 304 |
| | | UHWC | 1 | 2 |
| | | Total | 994 | 6055 |
| 14 | CBC | CMHO store | 56 | 3011 |
| | | Medical College | | |
| | | DH | 10 | 185 |
| | | Civil | 1 | 10 |
| | | СНС | 34 | 441 |
| | | РНС | 59 | 165 |
| | | UPHC | 8 | 41 |
| | | UCHC | 1 | 10 |
| | | Total | 169 | 3863 |
| 15 | HbA1C Level 1 | DH | 17 | 35 |
| | | CMHO store | 3 | 13 |
| | | CS | 2 | 3 |
| | | СНС | 38 | 56 |
| | | РНС | 1 | 1 |
| | | Total | 61 | 108 |
| 16 | HbA1C Level 2 | District hospital | 15 | 33 |
| | | CMHO store | 3 | 13 |
| | | CS | 2 | 3 |
| | | СНС | 37 | 55 |
| | | РНС | 2 | 2 |
| | | Total | 59 | 106 |

| SI.No | Drug Code | Drug Name | Unit | Ready For Issue | QC Pending |
|-------|-----------|-----------------------------------|-----------------------|-----------------------|---------------|
| 1 | REAG101 | Calcium- | 100 ml | 3213 | 0 |
| 2 | REAG102 | Chloride- | 100 ml | 1960 | 0 |
| 3 | REAG103 | LDL Direct- | 100 ml | 1667 | 0 |
| 4 | REAG114 | Potassium- | 100 ML | 1957 | 0 |
| 5 | REAG115 | Sodium- | 100 ml | 3239 | 0 |
| 6 | REAG116 | Total Protein- | 100 ml | 3810 | 0 |
| 7 | REAG480 | BLOOD CELL COUNTER REAGENT KIT | 1 | 7484 | 0 |
| 8 | REAG127 | Creatinine FS- | 4 x 50 T | 130 | 0 |
| 9 | REAG128 | Creatinine PAP FS- | 4 x 180 T | 33 | 0 |
| 10 | REAG40 | HDL-C Immuno FS- | pack size 4x200T | 187 | 0 |
| 11 | REAG96 | HDL cholesterol kit- | 100 ml | 3236 | 0 |
| 12 | REAG103 | LDL Direct- | 100 ml | 1667 | 0 |
| 13 | REAG41 | LDL-C Select FS - | pack size - 4x120 | 169 | 0 |
| 14 | REAG14 | ALAT GPT)FS IFCC mod.) - | Pack Size 4x200T | 129 | 0 |
| 15 | REAG146 | Potassium FS - | 4 x 100 T | 144 | 0 |
| 16 | REAG93 | S. Alkaline Phosphates 100 ml- | 100 ml | 3811 | 0 |
| 17 | REAG152 | Total Protein UC FS- | 4 x 120 T | 142 | 0 |
| 18 | REAG155 | TruCal Albumin U/CSF- | 5 x 1 mL | 33 | 0. |
| 19 | REAG16 | ASATGOT)FS IFCC mod.)- | Pack Size 4x200T | 126 | 0 |
| 20 | REAG168 | TruLab Albumin U/CSF Level 1- | 3 x 1 mL | 41 | 0 |
| 21 | REAG169 | TruLab Albumin U/CSF Level 2- | 3 x 1 mL | 32 | 0 |
| 22 | REAG17 | Bilirubin Auto Direct FS - | Pack Size 4x200T | 126 | 0 |
| 23 | REAG18 | Bilirubin Auto Total FS - | Pack Size - 4x200T | 126 | 0 |

Table 6: Current stock of important reagents at CGMSC warehouses on (6th Oct 2023)

| 24 | REAG182 | TruLab L Level 1- | 3 x 3 mL | 33 | 0 |
|----|---------|--|---------------------------|-----|---|
| 25 | REAG187 | TruLab One HbA1c level 1- | 4 x 0.25 mL | 31 | 0 |
| 26 | REAG188 | TruLab One HbA1c level 2- | 4 x 0.25 mL | 32 | 0 |
| 27 | REAG20 | Cleaner A - | pack size -4x60 ml | 125 | 0 |
| 28 | REAG21 | Cleaner B - | pack size - 4x60 ml | 126 | 0 |
| 29 | REAG22 | Cuvettes for Response - | pack size - 16x240 nos | 145 | 0 |
| 30 | REAG23 | Tru Cal U - | pack size- 6x3 ml | 137 | 0 |
| 31 | REAG25 | Creatinine FS pack size- | 4x200 T | 122 | 0 |
| 32 | REAG26 | Urea FS PACK SIZE- | 4x200 T | 127 | 0 |
| 33 | REAG27 | DS DILUENT - | 20L | 30 | 0 |
| 34 | REAG29 | M-6FD DYE - | 12mLx4 | 10 | 0 |
| 35 | REAG30 | M-6LH LYSE - | 1Lx4 | 171 | 0 |
| 36 | REAG32 | M-6FN DYE - | 12mLx4 | 10 | 0 |
| 37 | REAG33 | PROBE CLEANSER - | 50ml | 11 | 0 |
| 38 | REAG34 | ALBUMIN FS- | PACK SIZE 4x200T | 28 | 0 |
| 39 | REAG37 | Cholesterol FS - | pack size- 4x200T | 126 | 0 |
| 40 | REAG40 | HDL-C Immuno FS- | pack size 4x200T | 187 | 0 |
| 41 | REAG41 | LDL-C Select FS - | pack size - 4x120 | 169 | 0 |
| 42 | REAG43 | Total Protein FS - | pack size - 4x200T | 136 | 0 |
| 43 | REAG44 | Triglycerides FS 10 - | pack size- 4x200T | 127 | 0 |
| 44 | REAG45 | Uric Acid FS TOOS - | pack size- 4x200T | 131 | 0 |
| 45 | REAG70 | Albumin in Urine/CSF FS Microalbumin) - | pack size 4x100 T | 92 | 0 |
| 46 | REAG78 | oneHbA1c FS - | pack size-4x100 T | 30 | 0 |
| 47 | REAG81 | Sodium FS - | pack size-4x100 T | 153 | 0 |
| 48 | REAG85 | Tru Cal HbA1c Liquid- | pack size4x0.25 ml | 32 | 0 |

| 49 | REAG87 | Blood urea Kit (i) UREA U.V (kinetic) (ii) UREA U.V (kinetic) 100 ml- | 100ML | 3463 | 0 |
|----|--------|--|--------|------|---|
| 50 | REAG88 | S. CreatinineKit 100 ml- | 100ML | 3768 | 0 |
| 51 | REAG89 | URIC Acid test kit 100ml- | 100ml | 3795 | 0 |
| 52 | REAG90 | S Bilirubin Kit(i) BilirubinTotal (ii) Bilirubin Direct (iii) Bilirubin Total and Direct 100 ml- | 100 ML | 3753 | 0 |
| 53 | REAG91 | S.G.O.T Kit 100 ml- | 100 ml | 3797 | 0 |
| 54 | REAG92 | S.G.P.T Kit 100 ml- | 100 ml | 3787 | 0 |
| 55 | REAG93 | S. Alkaline Phosphates 100 ml- | 100 ml | 3811 | 0 |
| 56 | REAG94 | S. Cholesterol Kit 100 ml- | 100 ML | 3824 | 0 |
| 57 | REAG95 | Triglyceride kit 100 ml- | 100 ml | 3225 | 0 |
| 58 | REAG96 | HDL cholesterol kit- | 100 ml | 3236 | 0 |
| 59 | REAG98 | Albumin- | 100 ml | 1948 | 0 |