

OPERATIONAL GUIDELINE BLOOD SERVICES 2022-24



OFFICE OF THE MISSION DIRECTOR NATIONAL HEALTH MISSION, ASSAM Saikia Commercial Complex, Sri Nagar Path, Near Post office Bus Stand G. S. Road, Christianbasti, Guwahati – 781005

Sl. No.	Indicator Type	Indicator Statement	Indicator	Unit	Target 2022-23	Target 2023-24	Source of Data
135	Output	Number of District Hospitals having Blood Banks	Percentage (%) of District Hospitals having functional Blood Bank	Percentage	24 (96 %)	2023-24 25 (100 %)	E- Raktkosh, Blood Cell
136	Output	Voluntary blood donation	Voluntary blood donation against the blood collection units targeted for replacement/ donation	Percentage	Total Blood Collection 180000 Voluntary Blood Collection 135000 (75 % of total collection	Total Blood Collection 200000 Voluntary Blood Collection 150000 (75 % of total collection	SBTC (as e- raktkosh is not funtional in the state
137	Output	Blood component separator	% of blood banks having blood component separator	Percentage	13(existing) + 5 (new)= 18 (56 %)	18(existing) + 3(new)= 21 (65.6 %)	Blood Cell
138	Output	No of ICHH centres in the state at high prevalence districts	Number of integrated centres for hemoglobinopathies & haemophilia in the district against no. of identified districts with high prevalence of hemoglobinopathies & haemophilia	Number	2	2	Blood Cell

Key Deliverables FY 2022-24

BUDGET SUMMARY

FMR code	Activitie s	Budget Approv al FY 2022- 13	Budget Approval FY 2023- 24
HHS. 2 154	Screening for Blood Disorder	24.96	31.20
HHS. 2 155	Equipment for Day Care Centre	693.80	783.57
HSS. 2 156	Blood Bank/BCSU/BSU/Thalassemia Day Care Centre	44.38	34.70
HSS. 2 157	Blood Collection and Transport Vans	256.18	34.88
HSS. 2 158	Other Blood Services & Disorders Components	202.27	203.19
	Total	1221.59	1087.54

Note: The Fund Allotted for the FY 2023-24 to be utilized for the FY 2023-24 after due approval from the Mission Director, NHM , Assam

	ACTIVITY WISE SUMMARY OF BUDGET UNDER BLOOD SERVICES (ROP 2022-24)							
				FY 2022-23	3		FY 2023-24	4
FMR CODE		Activities	Total (in lakhs)	State Allocation (in lakhs)	District Allocation (in lakhs)	Total (in lakhs)	State Allocation (in lakhs)	District Allocation (in lakhs)
HSS.2	154	Screening for Blood Disorders	24.96	24.96	0.00	31.20	31.200	0.000
		Screening for Blood Disorders	24.96	24.96	0.00	31.20	31.200	0.000
HSS.2	155	Support for Blood Transfusion	693.80	0.00	693.80	783.57	783.570	0.000
HSS.2	156	Blood Bank/BCSU/BSU/Day Care Centre	44.38	39.58	4.80	34.70	34.70	0.00
	156.1	Operational Cost for BSU(Blood Storage Centres)	14.70	9.90	4.80	14.70	14.700	0.000
	156.2	Day care centre	20.00	20.00	0.00	20.00	20.000	0.000
	156.3	Procurement of 5 KVA for BSUS	8.50	8.50	0.00	0.00	0.000	0.000
	156.4	Procurement of Insulated Blood Bag Carrier	1.18	1.18	0.00	0.00	0.000	0.000
HSS.2	157	Blood collection and Transport Vans	256.18	256.18	0.00	34.88	34.88	0.00
	157.1	Procurement of Mobile Blood Collection Transport Vans (BCTVs)	227.20	227.20	0.00	0.00	0.000	0.000
	157.2	Operational costs and maintenance cost of BCTVs	28.98	28.98	0.00	34.88	34.880	0.000
HSS.2	158	Other Blood Services & Disorders Components	202.27	186.97	15.30	203.19	203.19	0.00
	158.1	Support for Conductiong Volunrary Blood Donation Camp	15.30	0.00	15.30	15.30	15.300	0.000
	158.2	Training on e-rakt kosh	8.02	8.02	0.00	0.00	0.000	0.000
	158.3	Procurement of drugs for blood disorder	178.95	178.95	0.00	187.89	187.890	0.000
Blo Servic Disor	ces &	Sub-Total	1221.59	507.69	713.90	1087.54	1087.54	0.00

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HSS.2	155	Free Blood For All) Patient requiring Blood Transfusion 1) Patient with Blood disorder 2) Patient in Trauma 3) Other requiring blood transfusion.	9-12
HSS.2	156.1	Operational Cost for BSU(Blood Storage Centre)	13-14
HSS.2	156.2	Day care Centre	14
HSS.2	156.3	Procurement of 5 KVA for BSUS	14
HSS.2	156.4	Procurement of Insulated Blood Bag Carrier	
HSS.2	157.1	Procurement of Mobile Blood Collection Transport Vans (BCTVs)	15
HSS.2	157.2	Operational costs and maintenance cost of BCTVs	
HSS.2	158.1	Support for Conducting Voluntary Blood Donation Camp	
HSS.2	158.2	Training on e-rakt kosh	16-18
HSS.2	158.3	Procurement of drugs for blood disorder	

FMR CODE

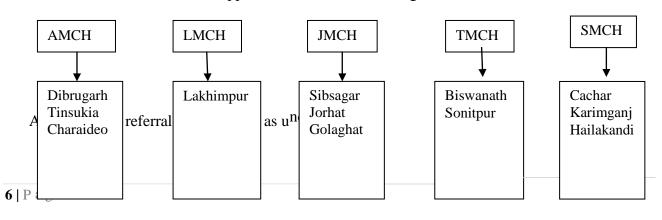
HSS.2 ,Sl No 154

Activity: - Confirmatory Test (HPLC) of Pregnant Women For Heamoglobinopathies.

Hemoglobinopathies are the commonest genetic disorders worldwide. They include thalassemia and abnormal variant haemoglobins such as Haemoglobin S, D, E, sickle cell aneamia etc. **Hence,** All pregnant women of the Tea Garden areas of 12 districts of Assam viz. Dibrugarh, Tinsukia, Charaideo, Lakhimpur, Sibsagar, Jorhat, Golaghat, Biswanath, Sonitpur, Cachar, Hailakandi and Karimganj. will be mandatorily tested for HB % by digital hemoglobinometer as clinically it is very difficult to pick up mild or moderate Anemia.

Process Guideline

- Pregnant women with Hemoglobin less than 8 mg/dl will be subjected to HPLC. (*Haemoglobin fraction analysis by cation-exchange HPLC is the commonest test used worldwide for secondary screen or laboratory diagnosis of hemoglobinopathies. It provides percentage quantification of different Haemoglobin fractions. The DNA based tests identify the defect at the gene level and provide final confirmation of the defect.*)
- A linkage with the Medical colleges (*having functional HPLC machine*) is developed for sending the samples of the pregnant women whose Haemoglobin estimation will be less than 8 mg/dl for confirmatory test (HPLC test).
- Women with Hb</=7 gm/dL will be immediately admitted and facilitated for blood transfusion after obtaining sample for HPLC.
- The pregnant women who will be diagnosed with Sickle Cell Anemia, thalassemia or Heamoglobin E trait/disease will be treated as per the advice of Medical Officer.



> The districts are mapped with the Medical Colleges as under:

Sl. No	Medical College	District					
110	0						
1	AMCH	Dib- Mon/Wed	Tsk- Tue/Thu	Charaideo- Fri/Sat			
2	LMCH	Lakhm- Mon/Wed/Fri					
3	JMCH	Sib- Mon/Wed	Jrht- Tue/Thu	Glght- Fri/Sat			
4	ТМСН	Mon/Wed- Biswanath	Sonitpur- Tue/Fri				
5	SMCH	Cachar- Mon/Wed	Hkd- Tue/Thu	Kmgnj- Fri/Sat			

BUDGET DETAILS

SAMPLE TRANSPORTAION FUND FOR FOR CONFIRMATORY TEST FOR HEAMOLOBINOPATHIES FOR THE FY 2022-23

Sl.no	Districts	Sample transportion (2 days in a week per)	Sample Transportaion in a year @ 2 day*52 weeks	Total Budget Required @ Rs 2000/-* 104 days for the FY 2022-23	Total Budget Required @ Rs 2000* 104 for the FY 2022-23 (in lakhs)
1	Cachar	2	104	208000	2.08
2	Dibrugarh	2	104	208000	2.08
3	Tinsukia	2	104	208000	2.08
4	Charaideo	2	104	208000	2.08
5	Lakhimpur	2	104	208000	2.08
6	Sivsagar	2	104	208000	2.08
7	Jorhat	2	104	208000	2.08
8	Golaghat	2	104	208000	2.08
9	Biswanath	2	104	208000	2.08
10	Sonitpur	2	104	208000	2.08
11	Hailakandi	2	104	208000	2.08
12	Karimganj	2	104	208000	2.08
	•	24.96			

SAMPLE TRANSPORTAION FUND FOR FOR CONFIRMATORY TEST (HPLC) FOR HEAMOLOBINOPATHIES FOR THE FY 2023-24

Sl.no	Districts	Sample transportion (2 days in a week per)	Sample Transportaion in a year @ 2 day*52 weeks	Total Budget Required @ Rs 2000/-* 104 days for the FY 2022-23	Total Budget Required @ Rs 2000* 104 for the FY 2022-24 (in lakhs)
1	Cachar	2	104	208000	2.08
2	Dibrugarh	2	104	208000	2.08
3	Tinsukia	2	104	208000	2.08
4	Charaideo	2	104	208000	2.08
5	Lakhimpur	2	104	208000	2.08
6	Sivsagar	2	104	208000	2.08
7	Jorhat	2	104	208000	2.08
8	Golaghat	2	104	208000	2.08
9	Biswanath	2	104	208000	2.08
10	Sonitpur	2	104	208000	2.08
11	Hailakandi	2	104	208000	2.08
12	Karimganj	2	104	208000	2.08
13	Baksa	2	104	208000	2.08
14	Udalguri	2	104	208000	2.08
15	Goalpara	2	104	208000	2.08
		Budget for F	Y 2022-23		31.2

Budget is at State HQ

NAME OF THE ACTIVITY: (Free Blood For All) Patient requiring Blood Transfusion 1) Patient with Blood disorder 2) Patient in Trauma 3) Other requiring blood transfusion.

Activity owner:

- ➤ At State level :- I/c Blood Cell, TanushreePathak, PE, MH
- > At District level District Program Manager / DAM/ In charge Blood Bank

The Public Health Facilities in the state do not charge any cost for blood but they are collecting processing charges. These processing charges not only add to out the of pocket expenditure at point of time but also discourages voluntary donation as there is misconception that blood banks are collecting charges inspite of the blood donation being free. To reduce the out of pocket expenditure and also to encourage voluntary blood donation needed to augment blood supply fund has been released for weaving off all user charges for Blood Transfusion excluding user charges for Pregnant Women which is already free as it is approved under RCH 1, Sl. No 3 (*ref Operational Guideline Maternal Health*)

All district to ensure that patient receives blood after due processing which will be free of cost. Fund will be released to the district health society

- All districts to ensure that patient receive blood, after due processing, free of cost. The Transfusion/ processing charges@Rs 650/- per transfusion shall not be claimed from any patient.
- For Pregnant Women, district will bookthe fund under RCH 1, Sl. No 3 (*ref Operational Guideline Maternal Health*)
- Other than pregnant women, the transfusion/processing charges @Rs. 650/-per unit of Blood, for the patient treated with blood transfusion at Govt. Health Institution/Accredited Govt. Health Institution will be booked under the FMR code 1.1.7.7
- The state will release the funds to the district health society.
- The district health society will release the funds for 3 (three) months in advance to all Mother Blood Banks.

- The Mother Blood Banks will submit the monthly utilization certificate to the district health society by 7th of every month.
- Along with the UC, the Mother Blood Banks will also have to submit the detailed line listing of the Patients/ Beneficiaries. A copy of the detailed line listing of the patient/beneficiaries will also be sent to the Director cum Member Secretary, Assam State Blood Transfusion Council.(*Format for submission of line list is at Annex I*)
- If any Private Health Institution sends requisition for Whole Blood or Blood Components at Govt. Blood Banks, the reimbursement will not be entertained. The Govt. Blood Banks will take the processing charges for Whole Blood and Packed Red Cells @ Rs 1050/- per unit, for Fresh Frozen Plasma and Platelet Concentrate @ Rs 300 per unit, for Cryoprecipitate @Rs 200 per unit from the Patient/Beneficiaries in line with the NACO/NBTC guidelines (ref letter No D.O No S-12016/01/2012-NACO (NBTC) Dated 21st August, 2017.

Annex I: Format for	Submission of Line List

						Un	Gen					
	Nam					der	eral					
	e of					JSS	(Un					
	the	Patient				Κ	der					
	Mot	ID/Hos	Na			(F	FM			Whole	Requising	
S	her	pital	me			MR	R			Blood	Departme	R
1	Bloo	ID/Blo	of			Со	Cod	No of	Blo	/Packed	nt /Other	e
	d	od	the		S	de	е	Unit	od	Cell/Co	Govt	m
N	Ban	Bank	Pati	А	e	1.1.	1.1.7	Transf	Gro	mpone	Health	ar
0	k	ID	ent	ge	x	1.3)	.7)	used	up	nt	Institution	ks

DISTRICT WISE BUDGET BREAKUP FY 2022-23 & 2023-24

SI. No.	District	Name of Govt. Blood Bank	Target in 2022-23	Budget Allocation Fy 2022-23 (in lakhs)
1	Baksa	DR. RAVI BORO CIVIL HOSPITAL	700	2.7
2	Barpeta	F.A.A. MEDICAL COLLEGE & HOSPITAL, BARPETA	10000	38.5
3	Biswanath	BISWANATH CHARIALI CIVIL HOSPITAL	2500	9.6
4	Bongaigaon	BONGAIGAON CIVIL HOSPITAL	2500	9.6
5		S. M. DEV CIVIL HOSPITAL	5000	19.3
6	Cachar	SILCHAR MEDICAL COLLEGE HOSPITAL	12000	46.2
7	Chirang	JSB CIVIL HOSPITAL	800	3.1
8	Darrang	MANGALDOI CIVIL HOSPITAL	4500	17.3
9	Dhemaji	DHEMAJI CIVIL HOSPITAL	2500	9.6
10	Dhubri	DHUBRI CIVIL HOSPITAL	4500	17.3
11	Dibrugarh	ASSAM MEDICAL COLLEGE HOSPITAL	22000	84.8
12	Dima Hasao	HAFLONG CIVIL HOSPITAL	1800	6.9
13	Goalpara	GOALPARA CIVIL HOSPITAL BLOOD BANK	4500	17.3
14	Golaghat	K K CIVIL HOSPITAL	7500	28.9
15	Hailakandi	HAILAKANDI CIVIL HOSPITAL	2000	7.7
16	Jorhat	JORHAT MEDICAL COLLEGE HOSPITAL	15000	57.8
17	Kamrup (M)	DISTRICT HOSPITAL SONAPUR	700	2.7

Sl. No.	District	Name of Govt. Blood Bank	Target in 2022-23	Budget Allocation Fy 2022-23 (in lakhs)
18		GUWAHATI MEDICAL COLLEGE HOSPITAL	23000	88.6
19		MAHENDRA MOHAN CHOUDHARY HOSPITAL	1500	5.8
20	Karbi Anglong	DIPHU MEDICAL COLLEGE HOSPITAL	3500	13.5
21	Karimganj	KARIMGANJ CIVIL HOSPITAL	3000	11.6
22	Kokrajhar	KOKRAJHAR CIVIL HOSPITAL	3000	11.6
23	Lakhimpur	LAHIMPUR MEDICAL COLLEGE HOSPITAL	7500	28.9
24	Majuli	SRI SRI PITAMBAR DEBOGOSWAMI GARAMUR CIVIL HOSPITAL	800	3.1
25	Marigaon	MORIGAON CIVIL HOSPITAL	3000	11.6
26	Nagaon	B.P. CIVIL HOSPITAL	7000	27.0
27	Nalbari	SWAHID MUKUNDA KAKOTI CIVIL HOSPITAL	7000	27.0
28	Sibsagar	SIBSAGAR CIVIL HOSPITAL	4500	17.3
29		KANAKLATA CIVIL HOSPITAL	8000	30.8
30	Sonitpur	TEZPUR MEDICAL COLLEGE AND HOSPITAL	5500	21.2
31	Tinsukia	TINSUKIA CIVIL HOSPITAL	3500	13.5
32	Udalguri	UDALGURI CIVIL HOSPITAL	700	2.7
		Total Fund	180000	693.80

FMR Code:

HSS 2, Sl. No 156

Activity: Blood Bank/ BCSU/BSU/Thalassemia Day Care Centre

1	FY 2022-23	Rs 44.38 lakhs
2	FY 2023-24	Rs. 34.70 lakhs

Activities:

Sl.	Activity	FY 2022 -23	FY 2023-24
No			
1	Operational Cost for BSU	Rs 14. 70 Lakhs	Rs 14. 70 lakhs
2	Day Care Centre at Nagaon and		
	Tinsukia DH in FY 2022-23	Rs 20 Lakhs	Rs. 20 lakhs
	Golaghat DH & Dhubri MC		
3	Procurement of 5 KVS UPS (5 nos)	Rs 8.50 lakhs	
	Procurement of Insulated Blood Bag	Rs 1. 18 lakhs	
	Carrier		
TOTAL		Rs 44,38 Lakhs	Rs 34.70

District Level Activities

1. Operational Cost for Blood Storage Units/ Centres

Fund has been approved existing Blood Storage Centres as operational cost @ Rs 10000/- per BSU.

The fund will be utilized for:-

- Displaying Signboard of Blood Storage Centre.
- Display Board for displaying the stock availability.

• Should have at least three types of register 1) Stock Register 2) Issue Register 3) Cross Match

Register 4) Expiry register

- Display of protocols on disposal of expiry blood bags in all BSUs.
- Other Miscellaneous activities.

Sl. No	Activities	Unit Cost (in Rs)	Units	Total Amount (Rs)
1	Operational Cost for BSU	10,000/-	49	4,90,000/-
District Allocation				4,90,000/-
State HQ				9,80,000/-
Total Allocation				Rs 14,70,000/-

Fund for the FY 2023-24 is at State HQ

Activity 2 :

Establishment of Day Care Centre at Nagaon and Tinsukia DH in FY 2022-23 and Golaghat DH & Dhubri MC in the FY 2023-24. The Activity is mainly procurement of equipments for Day care centre . Procurement will be done state HQ , fund is at State HQ.

Approved Budget

FY 2022-23	Rs 20 lakhs
FY 2023-24	Rs 20 Lakhs

Activity 3:

Procurement of 5 KVA UPS. Procurement will be done at State HQ, fund is at State HQ.

FY 2022-23	Rs 8.50 lakhs

Activity 4:

Procurement of Insulated Blood Bag Carrier. Procurement will be done at State HQ, fund is at State HQ.

FY 2022-23 Rs

Rs 1.18 lakhs

FMR Code

HSS 2, Sl. No 157

Activity :-

Blood Collection and Transport Vans

FY 2022-23	Rs. 256.18 lakhs
FY 2023-24	Rs. 34.88 Lakhs

Budget has been approved for

- i) Procurement of 5 nos of Blood Collection Vans,
- ii) CMC cost for 11 nos of existing and 5 new Blood Collection Vans
- iii) POL and contingency for 11 nos of existing and 5 new Blood Collection Vans.

Budget Breakup Up

A	A. Procurement of 5 nos. New Blood Collection Van in 2022-23						
Particulars Quan			tit Unit Cost for each (in Rs.)	Total Amount (in			
		У		Rs.)			
Bloo	d Donation	5	45,44,000/-	2,27,20,000/-			
Van							
E	B. CMC cost	of existing	11 nos. and 5 nos. new Blood Col	lection Van			
Sl.	Year	No. of	Unit Cost for each (in Rs.)	Total Amount (in Rs.)			
No.		Van					
1	2022-23	11	1,18,000/- X 11	12,98,000.00			
2	2023-24	16	1,18,000/- X 16	18,88,000.00			
(C. POL & Co	ontingency	for existing 11 nos. and 5 nos. ne	w Blood Collection Van:			
Sl.	Year	No. of	Unit Cost for each (in Rs.)	Total Amount (in Rs.)			
No.		Van					
1	2022-23	16	1,00,000/- X 11 nos.	16,00,000.00			
2	2023-24	16	1,00,000/- X 16 nos.	16,00,000.00			

The Fund will be at State HQ

FMR CODE

HSS.2, SL No158

Activity Head: - Other Blood Services & Disorders Components

FY 2022-23	Rs. 202.27 Lakhs
FY 2023-24	Rs. 203.19 Lakhs

Sub Activities

Sl.	Activity	FY 2022 -23	FY 2023-24
No			
1	Support for Conducting Vountary Blood Donation Camps	Rs 15. 30 Lakhs	Rs. 15.30 Lakhs
2	Training on e-Raktkosh	Rs. 8.02 Lakhs	
3 Procurement of drugs for management of hemoglobinopathies and hemophilia		178.95 Lakhs	Rs 187.89 lakhs
ΤΟΤΑ	ÁL (Rs. 202.27 Lakhs	Rs 203.19 Lakhs

Activity 1:-

To improve the voluntary Blood Donation Camps fund an additional fund has been allotted to support the camp as detailed

- The financial support of Rs. 2500/- per quarter is proposed based on the no of blocks to provide support to organize the voluntary blood donation camps in each blocks.
- Block Programe Manager will liaison with the Mother Blood Banks for conducting at least one voluntary Blood donation camps per quarter at Block.
- Blocks to organize staff voluntary Blood Donation camps on some special occasions such as on the occasion of Gandhi Jayanti, Voluntary Blood Donation Day, Independence Day, Republic Day etc.

- District will release the fund to the Blood banks
- For Barpeta & Bajali District as mother blood bank is Barpeta Medical College the fund has been allotted to Barpeta District..

SI No	Distric t	No of Health Block	Voluntary Blood Donation camps @ Rs 2500 per block per quarter FY 2022-23
1	Baksa	6	0.6
2	Barpeta & Bajali	7	0.7
3	Biswanath	3	0.3
4	Bongaigaon	4	0.4
5	Cachar	8	0.8
6	Charaideo	2	0.2
7	Chirang	2	0.2
8	Darrang	4	0.4
9	Dhemaji	5	0.5
10	Dhubri	5	0.5
11	Dibrugarh	6	0.6
12	Dima Hasao	3	0.3
13	Goalpara	5	0.5
14	Golaghat	5	0.5
15	Hailakandi	4	0.4
16	Hojai	2	0.2
17	Jorhat	6	0.6
18	Kamrup M	5	0.5
19	Kamrup R	12	1.2
20	Karbi Anglong	4	0.4
21	Karimganj	5	0.5
22	Kokrajhar	4	0.4
23	Lakhimpur	6	0.6
24	Majuli	1	0.1
25	Marigaon	3	0.3
26	Nagaon	9	0.9
27	Nalbari	4	0.4
28	Sibsagar	6	0.6
29	Sonitpur	4	0.4
30	South Salmara	2	0.2
31	Tinsukia	4	0.4
32	Udalguri	3	0.3
33	West Karbianglong	4	0.4
	Grand Total	153	15.3

District Wise Budget Breakup

Activity 2:-

The implementation of e-raktkosh training of Medical officer and lab technician on e-raktkosh will be provided at State HQ. The Training will be done at State HQ. Fund is at State HQ

FY 2022-23	Rs 8.02 lakhs

Activity 3:-

Procurement of drugs for management of hemoglobinopathies and hemophilia. The procurement will be done at State HQ. Fund is kept at State HQ.

FY	2022-23	Rs. 178.95 lakhs
FY	2023-24	Rs 187.89 lakhs

Guidance -

Mission Director, National Health Mission, Assam.

Executive Director, National Health Mission, Assam.

OSD National Health Mission, Assam

Contact Details, NHM HQ. Assam						
Sl.No	Sl.NoName of the Contact PersonDesignationContact No.					
1	Dr. Khalekuz Zaman	Consultant MH	94.5400574			
2.	Ms. TanushreePathak	Programme Executive	9101767708			

THANK YOU