

## **National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases and Stroke (NPCDCS).**

### **Detailed notes and Justification for PIP 2022-24**

1. State is implementing following activities under this programme
  - a. NCD Survey to all the citizens in the state
  - b. Establishment and operation of NCD clinics in all DH, SDH and CHC
  - c. NCD Clinics in PHCs
  - d. Cardiac Care Units in all District Hospitals
  - e. Cancer Screening Centers in all District Hospitals
2. NCD Survey:
  - a. State is conducting NCD CBAC survey to all the citizens in the state. State is integrated NCD Survey with creation of Digital Health Id under Ayushman Bharath Digital Health Mission
  - b. CBAC screening is conducted by ANMs in the State. All the ANMs provided with the Tabs and Dedicated online application developed by NHM IT team in the state. ANM visits @ 5 Houses per day and conduct the screening and upload the data. Uploading the data can be done through aadhar authentication by the citizen. At the same time health ID will also be generated.
  - c. So far 1.04 Cr of 4.99 Cr citizens screened for NCDs and created health IDs. It is expected to complete the screening of entire population in another 4 months.
  - d. All the suspected cases will be transferred from ANM login to Medical Officer Login. Medical officer shall examine the suspects and put on treatment.
3. NCD clinics
  - a. Dedicated NCD clinics were established in 13 DH, 28 SDH and 195 CHCs.
  - b. Dedicated online application is developed and monitoring the operationalization of Clinics.
  - c. Staff sanctioned to the CHCs and DH are recruited and placed. In case of SDH, exiting staff in the SDH are allocated for conducting the clinics.
  - d. Line listing of patients attended at clinics will be captured in the online application.
  - e. Details of patients attended at NCD Clinics for the year 2021-22 is attached.
  - f. Every Medical Officer in the PHC trained in NCD management protocols by the medical colleges in the state.
  - g. Drugs and medicines are being supplied to all the NCD clinics at DH,SDH and CHCs.
  - h. NCD clinic conducts every day 2 to 5 PM. Data of patients attended to the clinics shall be uploaded in the NCD application.

4. Cardiac Care Units
  - a. Cardiac Care Units were established in all every District Hospitals for providing cardiac care services. However there is challenge for recruitment of Cardiologist in CCUs. Presently all the Cardiologist posts in the CCUs are vacant.
  - b. Drugs and medicines are being supplied to all Cardiac Care Units.
5. Cancer screening centers are established in every District Hospital.
  - a. Cancer Screening Centers are sanctioned at all the DHs for the year 2022-23. Staff is recruited and screening centres are made functional from December 2021.

**Proposed activities:**

1. Four Sub district Hospitals in the state upgraded as District Hospitals and 27 CHCs upgraded as SDH.
2. Accordingly it is proposed to establish cardiac care units and Cancer screening centres in the recently upgraded DH.
3. It is proposed to strengthen the NCD clinics at all the four District Hospitals and 51 SDH with providing the additional equipment.
4. Proposed to conduct on hand reorientation training to all the PHC MOs, MLHPs, ANMs and ASHAs.
5. IEC activities are proposed to conduct as follows
  - a. Posters in all the Health Facilities and Government Offices
  - b. Jingles through FM Radio
  - c. Hoardings

Name of the Programme : National Programme for Prevention and Control of Diabetes, Cardiovascular Disease and Stroke (NPCDCS)

Name of the Scheme/Activity : District NCD Clinic

S. No	Detailed Head	ROP Approval 2021-22	Proposals 2022-23	Proposals 2023-24	Details of Activity & Cost Breakup			
3	Equipment (Including Furniture , Excluding Computers)	13	64.00	0	4 Sub District Hospitals upgraded as District Hospitals . Hence it is proposed to establish NCD clinics in 4 upgraded as District Hospitals 16 lakhs establishment labx4=64 lakhs			
					Sl. No	Name of the test	Name of the equipment	1 Unit Cost
					1	Hb, TLC, DLC, Platelet count	ANALYTICAL CBC Haematology Analyzer	3,50,000
					2	Fasting /PP blood sugar	ERBA Glucose Biochemistry semi-automatic	2,50,000
					3	Lipid profile		
					4	Liver Function Test		
					5	Kidney Function Test	3D/ 4D Mindray Ultrasound Color Doppler Machine, DC-N3	10,00,000
					6	Ultrasound		
4	Drugs and supplies	0	130	130	<b>Proposals 2022-23</b> Procurement and supply of 38 types drugs and consumables for 245 NCD Clinics (17 DHs, 51Ahs and 177 CHCs)			

				<p>towards Diabetes, CVD &amp; Stroke I.e.  ( Drugs 1 Tab Aspirin 2 Tab .Atenolol 3 Tab.Metoprolol 4 Tab. Amlodipine 10mg 5 Tab Hydrochlorthiazide 12.5, 25 mg 6 Tab.Enalapril 2.5/5mg 7 Tab Captopril 8 Tab. Methyldopa 9 Tab Atorvastatin 10mg 10 Tab Clopidogrel 11 Tab.Frusemide 40mg 12 Inj.Streptokinase 7.5 lac vial 13 Inj.Streptokinase 15 lac vial 14 Inj.Heparin sod.1000 IU 15 Tab.Isosorbide Dinitrate (Sorbitrate) 16 Glyceryl Trinitrate Inj, Sub lingual tabs 17 Diazepam Inj &amp; Tab 18 Inj.Adrenaline 19 Inj.Atropine sulphate 20 Inj.Digoxin 21 Tab.Digoxin 22 Tab.Verapamil(Isoptin) 23 Inj.Mephentine 24 Tab Potassium IP (Penicilliln V) 25 Inj. Normal saline (Sod chloride) 500ml 26 Inj.Ringer lactate 500ml 27 Inj.Mannitol 20% 300ml 28 Inj.Insulin Regular 29 Insulin Intermediate 30 Tab. Metformin 31 Inj. Aminophylline 32 Tab Folic Acid 33 Inj Benzathine Benzyl penicillin 34 Carbamazepine tabs, syrup 35 Inj Lignocaine hydrochloride 36 Inj.Dexamethasone 2mg/ml vial 37 Tab Prednisolone 38 Promethazine Tab, Syrup , Caps, I)</p> <p>@ 10.00 lakhs per each districtx13=130.00 lakhs</p> <p><b>Proposals 2023-24</b>  Procurement and supply of 38 types drugs and consumables for 245 NCD Clinics (17 DHs, 51Ahs and 177 CHCs) towards Diabetes, CVD &amp; Stroke I.e.  ( Drugs 1 Tab Aspirin 2 Tab .Atenolol 3 Tab.Metoprolol 4 Tab. Amlodipine 10mg 5 Tab Hydrochlorthiazide 12.5, 25 mg 6 Tab.Enalapril 2.5/5mg 7 Tab Captopril 8 Tab. Methyldopa 9 Tab Atorvastatin 10mg 10 Tab Clopidogrel 11 Tab.Frusemide 40mg 12 Inj.Streptokinase 7.5 lac vial 13 Inj.Streptokinase 15 lac vial 14 Inj.Heparin sod.1000 IU 15</p>
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					<p>Tab.Isosorbide Dinitrate (Sorbitrate) 16  Glyceryl Trinitrate Inj, Sub lingual tabs  17 Diazepam Inj &amp; Tab 18  Inj.Adrenaline 19 Inj.Atropine sulphate  20 Inj.Digoxin 21 Tab.Digoxin 22  Tab.Verapamil(Isoptin) 23  Inj.Mephentine 24 Tab Potassium IP  (Penicilliln V) 25 Inj. Normal saline (Sod  chloride) 500ml 26 Inj.Ringer lactate  500ml 27 Inj.Mannitol 20% 300ml 28  Inj.Insulin Regular 29 Insulin  Intermediate 30 Tab. Metformin 31 Inj.  Aminophylline 32 Tab Folic Acid 33 Inj  Benzathine Benzyl penicillin 34  Carbamazepine tabs, syrup 35 Inj  Lignocaine hydrochloride 36  Inj.Dexamethasone 2mg/ml vial 37 Tab  Prednisolone 38 Promethazine Tab,  Syrup , Caps, I)</p> <p>@ 10.00 lakhs per each  districtx13=130.00 lakhs</p>
8	Others including operating costs (OOC)	32.50	59.50	59.50	<p><b>Proposals 2022-23</b></p> <p>1)Rs.1.00 lakh per each District NCD  Clinic per annum is proposed towards  Office expenses, internet, stationery and  mobility (17 DH X 1.00 lakh=17 lakhs)</p> <p>2) Transporting the serious patients to  the hospital or at nearest tertiary level  facility from District Hospitals (17DH @  2.50 lakhs per facility =42.50)</p> <p><b>Proposals 2023-24</b></p> <p>)Rs.1.00 lakh per each District NCD  Clinic per annum is proposed towards  Office expenses, internet, stationery and  mobility (17 DH X 1.00 lakh=17 lakhs)</p> <p>2) Transporting the serious patients to  the hospital or at nearest tertiary level  facility from District Hospitals (17DH @  2.50 lakhs per facility =42.50)</p>

Name of the Programme : National Programme for Prevention and Control of Diabetes, Cardiovascular Disease and Stroke (NPCDCS)

Name of the Scheme/Activity : SDH/CHC NCD Clinics

S. No	Detailed Head	ROP Approval 2021-22	Proposals 2022-23	Proposals 2023-24	Details of Activity & Cost Breakup			
3	Equipment (Including Furniture, Excluding Computers)	117	816	0	Procurement of Equipment for District NCD Clinics and labs at 51 SDHs @ 10.00 Lakhs per District . Currently all District hospitals-13 and CHCs-195 have NCD clinics functioning under NHM. Further State identified NCD Clinics in all PHC with existing staff. Hence it is proposed for establishment of NCD Clinics -51 SDH @16.00 lakhs per SDH =816 lakhs			
					Sl. No	Name of the test	Name of the equipment	1 Unit Cost
					1	Hb, TLC, DLC, Platelet count	ANALYTICAL CBC Haematology Analyzer	3,50,000
					2	Fasting /PP blood sugar	ERBA Glucose Biochemistry semi-automatic	2,50,000
					3	Lipid profile		
					4	Liver Function Test		
					5	Kidney Function Test		
					6	Ultrasound	3D/ 4D Mindray Ultrasound Color Doppler Machine, DC-N3	10,00,000

8	Others including operating costs (OOC)	62.40	412.14	<p><b>Proposals 2022-23</b></p> <p>1)NCD Clinics are established in all 13 DHs and 195 CHCs . It is proposed to establish NCD Clinics in 51 Sub District Hospitals. For Operational Expenditure/ Furniture / renovation claimed for 177 CHCs and 51 SDHs @1.00 lakh per facility Total 228x1.00 lakhs =228 lakhs</p> <p>2) Transporting the serious patients to the District hospital or at nearest tertiary level facility from Sub District Hospitals and CHCs (51 SDH @ 2.50=127.50 and 177 CHCs@ 0.32lakhs per facility =56.64)Total =184.14 lakhs</p> <p><b>Proposals 2023-24</b></p> <p>1)NCD Clinics are established in all 13 DHs and 195 CHCs . It is proposed to establish NCD Clinics in 51 Sub District Hospitals. For Operational Expenditure/ Furniture / renovation claimed for 177 CHCs and 51 SDHs @1.00 lakh per facility Total 228x1.00 lakhs =228 lakhs</p> <p>2) Transporting the serious patients to the District hospital or at nearest tertiary level facility from Sub District Hospitals and CHCs (51 SDH @ 2.50=127.50 and 177 CHCs@ 0.32lakhs per facility =56.64)Total =184.14 lakhs</p>
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Name of the Programme : National Programme for Prevention and Control of Diabetes, Cardiovascular Disease and Stroke (NPCDCS)

Name of the Scheme/Activity : Cardiac Care Unit (CCU/ICU)

S. No	Detailed Head	ROP Approval 2021-22	Proposals 2022-23	Proposals 2022-23	Details of Activity & Cost Breakup
2	Infrastructure - Civil works (I&C)	0	540	0	<p>4 Sub District Hospitals upgraded as District Hospitals . Hence it is proposed to establish Cardiac Care Units in 4 upgraded as District Hospitals @ 135.00 lakhs per each CCU x4 = 540 lakhs</p> <p><b>List of Equipment:</b> 1 ECG machine computerized 2 ECG machine ordinary 3 12 Channel stress ECG test equipments Tread Mill 4 Cardiac Monitor with Defibrillator 5 Cardiac Monitor 6 Defibrillator 7 Ventilators (Adult) 8 Ventilators (Paediatrics) 9 Pulse Oximeter 10 Pulse Oximeter with NIB. 11 Infusion pump 12 B.P.apparatus table model 13 B.P.apparatus stand model 14 Stethoscope 15 Portable X-Ray Machine 16 Central Patient Monitoring Station 17 Intubation Kit, Bronchoscope, Laryngoscope 18 Portable Ultrasound Machine 19 Medical Gas Pipeline</p>
4	Drugs and supplies	60.00	340	340	<p><b>Proposals 2022-23</b> Drugs and Supplies for 17 Cardiac Care Units@20.00 lakhs per each CCU=340 lakhs <b>(List of Drugs Enclosed)</b> <b>Proposals 2023-24</b></p>



					Drugs and Supplies for 17 Cardiac Care Units@20.00 lakhs per each CCU=340 lakhs
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Name of the Programme : National Programme for Prevention and Control of Diabetes, Cardiovascular Disease and Stroke (NPCDCS)

Name of the Scheme/Activity : Other NPCDCS Components

S. No	Detailed Head	ROP Approval 2021-22	Proposals 2022-23	Proposals 2023-24	Details of Activity & Cost Breakup
1	Others including operating costs (OOC)	0	831.60	831.60	<p><b>Proposals 2022-23</b> Cancer Screening Centres are established in all 13 District Hospitals . It is proposed to establish Cancer Screening Centres in 4 upgraded District Hospitals and 51 Sub District Hospitals. 6 lakhs per facility towards renovation/ equipment x55 facilities =330 lakhs</p> <p>Procurement of equipment for Universal Screening of NCDs @ Rs.5000/- per SCx10032 SC=501.60 lakhs List of Equipment : Weighing Machine, Measuring tape, BP apparatus, HB meter, Pulse Oximeter</p> <p><b>Proposals 2023-24</b> Cancer Screening Centres are established in all 13 District Hospitals . It is proposed to establish Cancer Screening Centres in 4 upgraded District Hospitals and 51 Sub District Hospitals. 6 lakhs per facility towards renovation/ equipment x55 facilities =330 lakhs</p> <p>Procurement of equipment for Universal Screening of NCDs @ Rs.5000/- per SCx10032 SC=501.60 lakhs List of Equipment : Weighing Machine, Measuring tape, BP apparatus, HB meter, Pulse</p>

					Oximeter
4	Drugs and supplies	1109.12	340.00	340.00	<p><b>Proposals 2022-23</b></p> <p>Procurement of Drugs &amp; supplies for Cancer Care Units at Area Hospitals and District Hospitals @ Rs 5.00 Lakhs per District (17 DH+51SDH=340 lakhs )</p> <p><b>List of Drugs enclosed</b></p> <p><b>Proposals 2023-24</b></p> <p>Procurement of Drugs &amp; supplies for Cancer Care Units at Area Hospitals and District Hospitals @ Rs 5.00 Lakhs per District (17 DH+51SDH=340 lakhs )</p> <p><b>List of Drugs enclosed</b></p>
5	Diagnostics (Consumables, PPP, Sample Transport)	2290.75	4338.73	4338.73	<p><b>Proposals 2022-23</b></p> <p>1) Procurement and supply of Glucostrips and Lancets at all 1705 PHCs(both Rural and Urban). 2500 (estimated number of patients per PHC per year) * Rs.10 * 1705 PHCs = Rs. 426.25 lakhs</p> <p>2) Procurement and supply of Glucostrips and Lancets at all 10032 sub centres . (2500 (estimated number of patients per PHC per year) * Rs.10 * 10032 SCs )= Rs. 2508.00 lakhs</p> <p>3) Ongoing activity being proposed for procurement of Drugs &amp; Supplies for Universal Screening of NCDs( Total Adult Population 2,00,00,000 HTN as per NFHS-5 Survey</p>

				<p>27.15%- (50,00,000), Expected number of cases for management (20%) of suspected cases i.e. 11,00,000 and DM disease burden (20.65% as per NFHS-5) i.e. 41,30,000 expected number of cases for management (20%) of suspected cases i.e. 8,26,000 (Total SC 10032@ Rs.14,000/-=Rs. 14,04,48,000/-)</p> <p><b>Proposals 2023-24</b>  1)Procurement and supply of Glucostrips and Lancets at all 1705 PHCs(both Rural and Urban). 2500 (estimated number of patients per PHC per year) * Rs.10 * 1705 PHCs = Rs. 426.25 lakhs  2) Procurement and supply of Glucostrips and Lancets at all 10032 sub centres . (2500 (estimated number of patients per PHC per year) * Rs.10 * 10032 SCs )= Rs. 2508.00 lakhs  3) Ongoing activity being proposed for procurement of Drugs &amp; Supplies for Universal Screening of NCDs( Total Adult Population 2,00,00,000 HTN as per NFHS-5 Survey 27.15%- (50,00,000), Expected number of cases for management (20%) of suspected cases i.e. 11,00,000 and DM disease burden (20.65% as per NFHS-5) i.e. 41,30,000 expected number of cases for management (20%) of suspected cases i.e. 8,26,000</p>
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					(Total SC 10032@ Rs.14,000/-=Rs. 14,04,48,000/-)
6	Capacity building incl. training	91	84.95	106.18	<b>Proposals 2022-23</b> Universal Screening Training to all MOs-2571, - MLHPs- 5277, ,ANMs- 20,188, ,ASHAs,42752, Total=70,791 batch size 50 Total number batches 1416 @ 120 per head towards TA/snacks/IEC (70791xRs.120= Rs.84,94,920/- <b>Proposals 2023-24</b> Universal Screening Training to all MOs-2571, - MLHPs- 5277, ,ANMs- 20,188, ,ASHAs,42752, Total=70,791 batch size 50 Total number batches 1416 @ 150 per head towards TA/snacks/IEC (70791xRs.150= Rs.1,06,18,650/-
8	Others including operating costs (OOC)	343.50	511.50	511.50	<b>Proposals 2022-23</b> Ongoing activity being continued for supervision and monitoring of PHC Medical Officer @ 30,000 per anum * 1705 PHCs = 511.50 lakhs <b>Proposals 2023-24</b> Ongoing activity being continued for supervision and monitoring of PHC Medical Officer @ 30,000 per anum * 1705 PHCs = 511.50 lakhs
9	IEC & Printing	206.32	567.77		<b>Proposals 2022-23</b> Printing and supply of NCD 5 types posters to all health facilities ( Secretariats - 15005 (11163 rural and 3842 Urban),PHCs-

				567.77	<p>1705(Rural 1145 Urban 560) CHC -177, AHs-51, DH-17,TH-11, DM&amp;HO Offices - 13 , Estimated Government Offices@ 400 per Dist =5,200 ) Total facilities 20,466x5 posters =128330x Rs 20= 25,66,600/-</p> <p>Printing and supply of NCD module in local language to all NCD clinics (PHCs- 1705(Rural 1145 Urban 560) CHC -177, AHs-51, DH-17,) Total facilities 1942@ 500 modules per facility =9,71,000x Rs 30= 2,91,30,000/-</p> <p>Printing and supply of patient referral cards@ 2,500 per suc centre * 10,032 sub centres = 2,50,80,000/- lakhs</p> <p><b>Proposals 2023-24</b></p> <p>Printing and supply of NCD 5 types posters to all health facilities ( Secretariats - 15005 (11163 rural and 3842 Urban),PHCs- 1705(Rural 1145 Urban 560) CHC -177, AHs-51, DH-17,TH-11, DM&amp;HO Offices - 13 , Estimated Government Offices@ 400 per Dist =5,200 ) Total facilities 20,466x5 posters =128330x Rs 20= 25,66,600/-</p> <p>Printing and supply of NCD module in local language to all NCD clinics (PHCs- 1705(Rural 1145 Urban 560) CHC -177, AHs-51, DH-17,) Total facilities 1942@ 500 modules per facility =9,71,000x Rs 30= 2,91,30,000/-</p> <p>Printing and supply of</p>
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					<p>patient referral cards@ 2,500 per suc centre * 10,032 sub centres = 2,50,80,000/- lakhs</p>
10	Planning & M&E	88	88.00	88.00	<p><b>Proposals 2022-23</b> Monitoring, supervision and review meetings of NPCDCS @ 5.00 lakhs per annum Monitoring, supervision and review meetings of NPCDCS @ 3.00 lakhs per Districtx13=39 lakhs State NCD Cell (TA,DA,POL) @ 3.00 lakhs per annum District NCD Cell (TA,DA,POL) @ 2.00 lakhs per Districtx13=26 lakhs State NCD Cell (Contingency) @ 2.00 lakhs per annum District NCD Cell (Contingency) @ 1.00 lakhs per Districtx13 Districts=13 <b>Proposals 2023-24</b> Monitoring, supervision and review meetings of NPCDCS @ 5.00 lakhs per annum Monitoring, supervision and review meetings of NPCDCS @ 3.00 lakhs per Districtx13=39 lakhs State NCD Cell (TA,DA,POL) @ 3.00 lakhs per annum District NCD Cell (TA,DA,POL) @ 2.00 lakhs per Districtx13=26 lakhs State NCD Cell (Contingency) @ 2.00 lakhs per annum District NCD Cell (Contingency) @ 1.00 lakhs per Districtx13 Districts=13</p>