

## How to use the National Health System Cost Database (Round 1 – 2016)

### Background

The Round 1 cost database provides economic cost data for district hospitals, community health centres, primary care centres and sub-health centres from 6 states (Himachal Pradesh, Haryana, Punjab, Odisha, Kerala and Tamil Nadu).

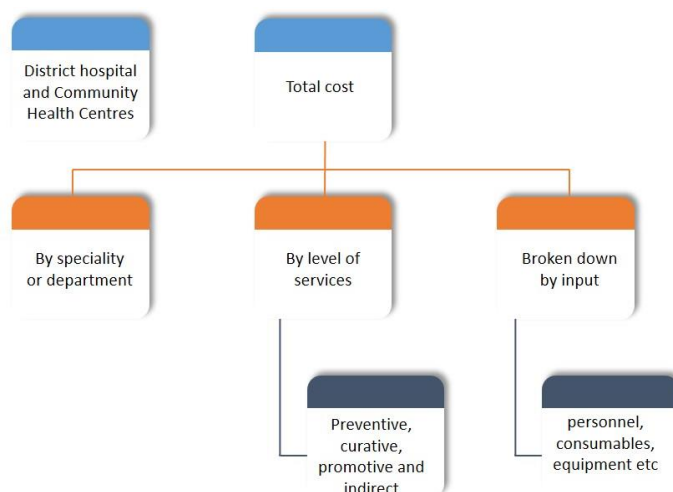
*To access the data, you first need to register here or log in.*

### Content of the database

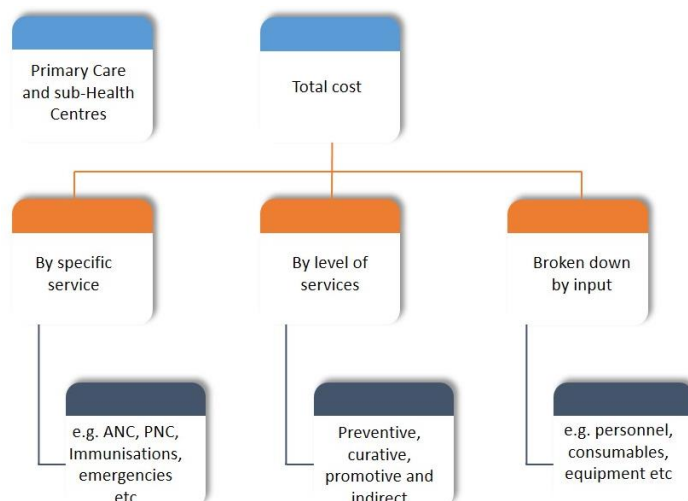
For each state and each facility level, it is possible to extract the **mean annual cost of the facility** (referred to as Total Cost) and **costs per unit of output** (referred to as Unit Cost) broken down inputs (personnel, consumables, equipment etc.), specialty or types of service and levels of service. The flowchart below show the different breakdowns of data that can be accessed.

Costs are available for each service or specialty at a facility at the current levels of utilisation and with unit costs also available adjusted for different levels of capacity utilisation.

Flowchart 1:

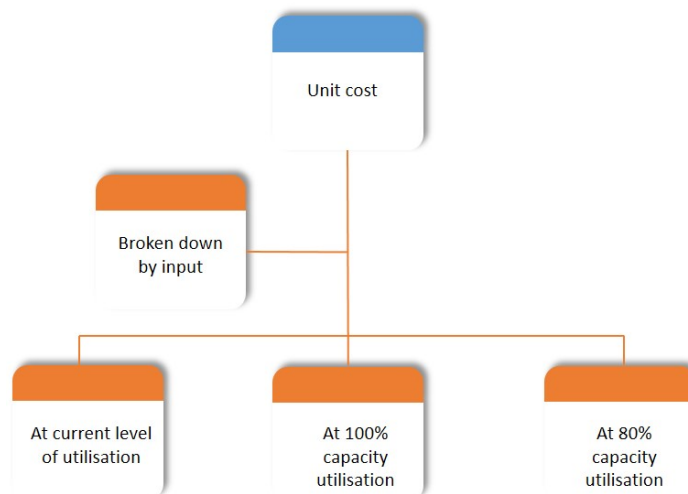


Flowchart 1.1:



## How to use the National Health System Cost Database (Round 1)

Flowchart 1.2:



### Selecting Data

#### Step 1: First choose the health state and level of the health system

Once you have registered and logged in, you need to select the states you are interested in by clicking on the boxes next to the states of interest. All the states name are showing on screen. You can select one or more states by clicking on checkbox. As shown in picture 1 below, Himachal Pradesh and Punjab have been selected. Once the states are selected, use the dropdown menu to select the level of facility required. You can select whether you want data for District Hospitals, Community Health Centres, Primary Health Centres or Sub Health Centres. You will need to extract data for each level of the health system separately.

Picture 1:

**Round 1**

Access The Data

How To Use The Database

Costing Methodology

### Access The Data

To obtain annual and/or unit cost estimates use the menus below. You can select one or more states. If you would like an estimate for all states, then tick the boxes for each of the states. You can then choose the level of system that you are interested in by using the facility pull down menu. In the output menu you can choose between total cost or unit cost. In the parameter menu you can then choose to extract costs at different levels of capacity utilisation. You can also choose to extract costs broken down by inputs. All unit costs are mean values presented in Indian National Rupee (₹).

**Note:** If already registered please Login or register to use the database.

Data Collection Tools | How To Use The Database | Methodology

\*State  Himachal Pradesh |  Haryana |  Punjab |  Odisha |  Kerala |  Tamil Nadu |

\*Facility

\*Output

\*Parameter

Submit Reset

Top

#### Step 2: Now choose the type of cost data

The next step is to decide on whether you want total cost or unit cost data. This can be selected from the “Output” dropdown menu as shown in picture 2 below.

## How to use the National Health System Cost Database (Round 1)

Picture 2:

**Round 1**

**Access The Data**

[How To Use The Database](#)

[Costing Methodology](#)

### Access The Data

To obtain annual and/or unit cost estimates use the menus below. You can select one or more states. If you would like an estimate for all states, then tick the boxes for each of the states. You can then choose the level of system that you are interested in by using the facility pull down menu. In the output menu you can choose between total cost or unit cost. In the parameter menu you can then choose to extract costs at different levels of capacity utilisation. You can also choose to extract costs broken down by inputs. All unit costs are mean values presented in Indian National Rupee (₹).

**Note:** If already registered please Login or register to use the database.

[Data Collection Tools](#) [How To Use The Database](#) [Methodology](#)

\*State  Himachal Pradesh |  Haryana |  Punjab |  Odisha |  Kerala |  Tamil Nadu |

\*Facility

\*Output

\*Parameter

[Top](#)

### Step 3: Extracting Data

#### Data on Total Costs

If **“Total cost”** is selected, it is then necessary to decide and select how the data should be broken down in the **“Parameter”** menu.

The breakdown options vary depending on the level of the facility. At the District Hospital, breakdown **by speciality** can be selected; whereas for all other levels the breakdown is by the **specific services** provided. Other breakdown options include **input wise** (personnel, consumables, building, equipment etc.) or by the **level of services** (preventive, curative or promotive).

The different options are shown in the picture 3 and 3.1 below. Once the parameter is selected, you can click on **“Submit”** to generate the cost tables.

Picture 3:

**Round 1**

**Access The Data**

[How To Use The Database](#)

[Costing Methodology](#)

### Access The Data

To obtain annual and/or unit cost estimates use the menus below. You can select one or more states. If you would like an estimate for all states, then tick the boxes for each of the states. You can then choose the level of system that you are interested in by using the facility pull down menu. In the output menu you can choose between total cost or unit cost. In the parameter menu you can then choose to extract costs at different levels of capacity utilisation. You can also choose to extract costs broken down by inputs. All unit costs are mean values presented in Indian National Rupee (₹).

**Note:** If already registered please Login or register to use the database.

[Data Collection Tools](#) [How To Use The Database](#) [Methodology](#)

\*State  Himachal Pradesh |  Haryana |  Punjab |  Odisha |  Kerala |  Tamil Nadu |

\*Facility

\*Output

\*Parameter

[Top](#)

## How to use the National Health System Cost Database (Round 1)

Picture 3.1:

**Round 1**

Access The Data

How To Use The Database

Costing Methodology

### Access The Data

To obtain annual and/or unit cost estimates use the menus below. You can select one or more states. If you would like an estimate for all states, then tick the boxes for each of the states. You can then choose the level of system that you are interested in by using the facility pull down menu. In the output menu you can choose between total cost or unit cost. In the parameter menu you can then choose to extract costs at different levels of capacity utilisation. You can also choose to extract costs broken down by inputs. All unit costs are mean values presented in Indian National Rupee (₹).

**Note:** If already registered please Login or register to use the database.

Data Collection Tools | How To Use The Database | Methodology

\*State  Himachal Pradesh |  Haryana |  Punjab |  Odisha |  Kerala |  Tamil Nadu |

\*Facility Community Health Center \*Output Total Cost \*Parameter -----Select-----

Input Wise  
Level of Services  
Specific Services

Submit Reset

Top

### Unit Cost Data

If “**Unit cost**” data are selected, you then need to choose whether you would like the unit costs with or without a breakdown **by input**.

Next you can choose whether to use the cost data as is – **at current levels of utilisation** or whether an adjustment for capacity utilisation is needed. This adjustment to the unit cost takes account of the fact that health facilities do not run at optimal capacity. Options for both **80%** and **100% capacity utilisation** are provided to generate the cost estimates at optimal capacity utilisation.

The picture 3.2 below show that if you select an input wise breakdown, another “Input” box appears along with the option to choose between the different levels of capacity. If you do not need the input wise breakdown, you can select the level of capacity utilisation in the “Parameter” box.

Once the “**Parameter**” and “**Inputs**” (if needed) have been selected, click on submit to extract the unit cost data tables.

Picture 3.2:

**Round 1**

Access The Data

How To Use The Database

Costing Methodology

### Access The Data

To obtain annual and/or unit cost estimates use the menus below. You can select one or more states. If you would like an estimate for all states, then tick the boxes for each of the states. You can then choose the level of system that you are interested in by using the facility pull down menu. In the output menu you can choose between total cost or unit cost. In the parameter menu you can then choose to extract costs at different levels of capacity utilisation. You can also choose to extract costs broken down by inputs. All unit costs are mean values presented in Indian National Rupee (₹).

**Note:** If already registered please Login or register to use the database.

Data Collection Tools | How To Use The Database | Methodology

\*State  Himachal Pradesh |  Haryana |  Punjab |  Odisha |  Kerala |  Tamil Nadu |

\*Facility Community Health Center \*Output Unit Cost \*Parameter -----Select-----

Unit Cost at Current Level of Utilization  
Unit Cost at 100% Utilization  
Unit Cost at 80% Utilization  
Input wise

Submit Reset

Top

## How to use the National Health System Cost Database (Round 1)

Picture 3.3:

Top

### Step 4: Downloading Output Tables

#### Output Tables for Total Cost Data

The screenshots below show the table generated for Community Health Centres in Himachal Pradesh and Odisha broken down by “Specific services”; “Input wise”; and by “Level of services”. All tables can be downloaded as MS Excel tables.

Output table 4:



Distribution of annual cost by level of services at the level of community health center across different states in India		
Level of Services	Mean annual cost in Indian rupees (95% CI)	
	Himachal Pradesh (2014-15) <sup>2</sup>	Odisha (2014-15) <sup>2</sup>
Preventive	598,787 (495,547-679,016)	1,015,177 (582,880-1,597,552)
Curative	6,603,735 (1,924,966-13,174,284)	10,812,350 (7,495,476-14,508,931)
Promotive	380,905 (111,011-566,776)	937,201 (732,212-1,174,676)
Indirect services	5,187,110 (2,052,241-8,223,315)	5,298,538 (4,577,829-5,953,310)
<b>Total cost</b>	<b>12,770,537 (4,937,681-22,187,626)</b>	<b>18,063,266 (14,083,160-22,804,305)</b>

Top

Output table 4.1:



Input-wise distribution of annual cost at the level of community health center across different states in India		
Inputs	Mean annual cost in Indian rupees (95% CI)	
	Himachal Pradesh (2014-15) <sup>2</sup>	Odisha (2014-15) <sup>2</sup>
Human resource	7,061,353 (2,283,195-12,681,267)	8,500,109 (7,363,819-9,650,411)
Space & building	1,646,846 (780,595-2,686,957)	172,719 (139,573-214,770)
Equipment & furniture	1,790,394 (1,368,566-2,469,911)	760,779 (339,498-1,285,824)
Drugs	720,521 (66,491-1,319,485)	3,809,129 (2,386,340-5,594,787)
Consumables	659,846 (24,254-1,716,759)	1,420,646 (467,565-3,055,101)
Other recurrent costs	404,257 (92,047-815,782)	512,357 (147,472-1,091,714)
Fund & cash benefits	487,320 (158,394-806,100)	2,887,527 (1,744,824-4,117,026)
<b>Total cost</b>	<b>12,770,537 (4,937,681-22,187,626)</b>	<b>18,063,266 (14,083,160-22,804,305)</b>

Top

## How to use the National Health System Cost Database (Round 1)

Output table 4.2:



Specific Services	Mean annual cost in Indian rupees (95% CI)	
	Himachal Pradesh (2014-15) <sup>a</sup>	Odisha (2014-15) <sup>a</sup>
Antenatal and postnatal care	285,175 (37,253-424,225)	736,634 (468,039-1,210,990)
Institutional deliveries and new borne care corner	285,909 (13,840-629,104)	1,993,881 (1,104,361-3,020,506)
Immunization	266,940 (130,562-502,853)	398,455 (212,548-610,814)
Outpatient department	3,026,718 (1,212,441-5,612,495)	5,581,465 (4,362,013-7,082,494)
Family Planning activities	386,641 (64,867-925,966)	653,520 (374,012-919,622)
Inpatient ward & special day care	2,031,908 (557,033-4,756,065)	2,529,381 (1,441,889-3,921,109)
Operation theatre	38,029 (3,749-99,482)	102,618 (54,240-160,310)
Dental	457,663 (0-738,971)	5,701 (357-11,711)
Emergency	456,876 (77,063-1,013,504)	125,391 (62,213-912,142)
Outreach activities	368,817 (110,774-744,685)	638,987 (384,269-2,268,658)
Meetings	549,757 (76,459-903,656)	853,039 (575,137-1,086,145)
Routine administrative work	1,218,637 (5,274-1,968,313)	1,605,879 (1,164,205-2,046,036)
Monitoring and supervision	536,989 (0-895,662)	137,917 (85,309-189,660)
Support activities	793,428 (330,605-1,663,477)	1,496,678 (1,015,060-1,987,344)
Diagnostics	1,349,206 (1,003,888-1,922,902)	882,725 (497,677-1,678,157)
Ambulatory	554,744 (0-1,084,040)	288,018 (112,872-466,352)
Trainings	163,101 (225-245,399)	32,975 (15,447-53,604)
<b>Total</b>	<b>12,770,537 (4,937,681-22,187,626)</b>	<b>18,063,266 (14,083,160-22,804,305)</b>

Top

### Output Tables for Unit Cost Data

The screenshots below show the Unit Cost tables generated for Community Health Centres in Himachal Pradesh and Odisha at current levels of utilisation. Unit costs are presented for each service provided overall and/or broken down by input.

All tables can be downloaded as MS Excel tables.

Output table 4.3:



Type of service	Unit cost at current level of utilization in Indian rupees (95% CI)	
	Himachal Pradesh (2014-15) <sup>a</sup>	Odisha (2014-15) <sup>a</sup>
Per antenatal care visit	412 (266-557)	245 (180-331)
Per postnatal care visit	1,073 (825-1,321)	946 (468-1,570)
Per vaccination shot	291 (128-399)	306 (132-473)
Per patient outpatient consultation	168 (121-201)	169 (140-204)
Per Tubectomy procedure	2,739 (1,904-3,877)	1,427 <sup>a</sup>
Per IUCD procedure	2,561 (1,603-4,426)	759 (545-1,027)
Per bed day inpatient care	595 (130-1,326)	465 (307-728)
Per institutional delivery	10,447 (2,430-18,464)	2,673 (1,995-3,717)

Top

Output table 4.4:



Inputs	Distribution of unit cost at current level of utilization in Indian rupees															
	Himachal Pradesh (2014-15) <sup>a</sup>								Odisha (2014-15) <sup>a</sup>							
	Antenatal care visit	Postnatal care visit	Vaccination shot	Outpatient Consultation	Tubectomy procedure	IUCD procedure	Inpatient care	Institutional delivery	Antenatal care visit	Postnatal care visit	Vaccination shot	Outpatient Consultation	Tubectomy procedure	IUCD procedure	Inpatient care	Institutional delivery
Human resource	311	868	60	79	1,447	330	504	1,298	116	678	155	32	1,327	671	208	915
Equipments	5	1	170	2	403	693	7	4,341	2	16	0	1	65	1	37	33
Drugs	12	41	24	19	4	5	12	13	61	66	33	93	3	2	79	13
Consumables	12	18	5	11	12	3	35	27	7	16	3	19	24	36	41	142
Capital	35	70	13	41	614	1,124	197	1,570	2	6	6	2	2	8	6	21
Furniture	22	43	11	6	170	309	37	2,642	1	11	16	5	3	4	13	20
Overheads	10	30	6	7	49	81	16	139	1	2	2	1	2	2	2	4
Stationary	2	0	2	2		6	2	0	0	0	0	1	0	0	0	0
IEC materials									37	37	37	37		73	37	73
Funds Utilised	8	5	5	11	498	519	11	5	47	139	94	23			41	75
Cash Benefits					417	417		415								
<b>Total cost</b>	<b>416</b>	<b>1,076</b>	<b>295</b>	<b>176</b>	<b>3,614</b>	<b>3,488</b>	<b>821</b>	<b>10,450</b>	<b>273</b>	<b>971</b>	<b>346</b>	<b>213</b>	<b>1,427</b>	<b>797</b>	<b>464</b>	<b>1,296</b>

Top