# National Income





## **Different Concepts of NATIONAL INCOME**

**Gross Domestic Product** 

Gross domestic product (GDP) is a measure of the market value of all final economic goods and services, produced within the domestic territory of a country during a given time period.

It includes the value of goods produced, such as houses and mobiles, and the value of services, such as telecom, health, insurance.

The output of each of these is valued at its market price, and the values are added together to get GDP.

## 1. Market value









Source: Ministry of Statistics and Programme Implementation

Example: Price Nominal Real GDP · 2011-12 2000 20 2000 2022-23 50 7500 3000 150

Real	GDP	Growth %=	3000 - 2000 x 100
1		•	2000
			~~~~

= 1000 x100 = 50%

<b>~</b>	$2000 + 50 \times 2000$
	Too
7	3000

#### Base year

Real GDP or Gross Domestic Product (GDP) at Constant (2011-12) Prices in Q1 2022-23 is estimated to attain a level of ₹ 36.85 lakh crore, as against ₹ 32.46 lakh crore in Q1 2021-22, showing a growth of 13.5 percent as <del>compared to 20.1 percent in Q1 2021-2</del>2





Example	-	Nominal GDP	Real GDP
	2011-12	2000	2000
	2022-23	10.00D	4000
l.	GDP deflator	of the base year -	-
2.	GIDP dellator	r 0 22.23.	
	J	}	
1.	GIDP dellator	0 2011 - 12 = 2000	$2 \times 100 = 100$
	J	200	0
<b>→</b>	The deflator	d the base year f	s always 100
		<u>b</u> J	
2	GIDP dellator	0 22.23 = 10.00	D x lop - 250
	J	400	b
-x3	Nominal (	GDP = 9000	
	Real GDP	× 10.000	
	· · · · · · · · · · · · · · · · · · ·		
	Gí	OP deflator = 9000	00 y
		J 10.00	0
		- 90	

			(In Billion Rs.)
Years	Nominal GDP	Real GDP	GDP Deflator
2014	500	500	100
2015	800	650	123.08
2016	1150	800	143.75 ->
2017	1300	950	136.84
2018	1550	1190	130.25
2019	1700	1240	137.10
 	P Acholar > 10	D the find	intra that

The nominal and real GDP respectively of a country in a particular year are  $\gtrless$  3000 Crores and  $\end{Bmatrix}$  4700 Crores respectively. Calculate GDP deflator and comment on the level of prices of the year in comparison with the base year.



**GDP** Suppose nominal GNP of a country in 2010 is given at ₹600 Crores and price index is given as base year 2010 is 100. Now let the nominal GDP increases to ₹1200 Crores in 2018 and the price index rises to 110, find out real <u>GD</u>P?

		Nominal GDP	Price Index- GIDP def	
Base year	2010	600 cr. 1	100	
J	2018 -	1200 cr.	110	
	ίD	Real GIDP O	2010 - 600 cr	
		V. A.		
->	Real G	DP O   2018 =	1200 cr. x 100	
	102.01			
		7	2 1090.91 cr.	

## → We can calculate Inflation rate using GIDP deflator

 $\frac{9n}{100 \text{ fation sate}} = \frac{GiDP \, deflator \, ^2n \, year \, 2}{GiDP \, deflator \, ^2n \, year \, 2} = \frac{GiDP \, deflator \, ^2n \, year \, 2}{GiDP \, deflation \, in \, year \, 2}$ 

	(In Dillion Do)	
	(IN BIIIION KS.)	
Years	GDP Deflator	Jnliation Kate
2014	100	
2015	123.08	$\Rightarrow \frac{123.08 - 100}{100} \times 100 = 23.08 /$
✓ 2016	143.75	143.75-123.08 x 100 = 16.79
2017	136.84	123.08
2018	130.25	$136.84 - 143.15 \times 100 = -4.81 /.$
2019	137.10	נו קרו
	L <b>,</b>	137.10 - 130.25 × 100 - 5.261
		130.25











$$G_{Tross} \vee s Net$$

$$g_{-2022.23} \qquad MP$$

$$Machines brocked - 10,000 \vee$$

$$Other Groods & Services brodwed - 340,000
Groppe 350,000
Uselul life > 1 year
$$Net = G_{Tross} - Deptectation
Lonsumption of
Intel capital.
$$Dep - Portion of fixed cap used up in the process of
production.$$

$$gmportant formulas$$

$$Groppe = Groppe + NFIA
Groppe = Groppe + NFIA - 3nd irect Taxes + Subsidies
$$MNPFc = Groppe + NFIA - 3nd Tax + Subsidies$$

$$MP = NOPFc + Dep + NFIA + 3nd Tax - Subsidies$$$$$$$$

### Multiple Choice Questions



Ind. Dep MP & FC FC + Ind. Jax - Sub = MP	
4) Gross Domestic Product (GDP) of any nation	
a) excludes capital consumption and intermediate consumption	
b is inclusive of capital consumption or depreciation	
(x) is inclusive of indirect taxes but excludes subsidies	
d) None of the above	
	-
5) Gross National Product at market prices GNP MP is	-
GDP MP + Net Factor Income from Abroad	-
b) GDP MP - Net Factor Income from Abroad	-
c) GDP MP - Depreciation N° U + Nr M	-
$d^{T}GDP_{MP} + Net Indirect Taxes_X$	-
c) The basis of distinction between member with the and factor cost is	-
6) The basis of distinction between market price and factor cost is	
ar net factor income from abroad	-
$\psi$ net indirect taxes (i.e., indirect taxes - Subsidies)	
depreciation ( consumption of fixed capital)	

Exclusions from GDP 1. Iransfer Poyment | These payments do not result in the Income: production of goods or Services. Ion-factor Income Ex- Social Security Denefits, Donation. Non-Jactor Income gifts. etc. Pinancial transaction: Stocks Shares Which are exchanged In the Market are not in cluded. However, Value of Services that accompany Sale & purchase are included. Is brokerage by zerodna. 2 Sale of 2nd hand Gloods 3 Unreported Output :- Illegal transactions Ex. Grambling 4 +9ndirect Subsidy factor Taxes \_ Market Basic Price - & Subsidy + Production Tax Cost - Subsidy

\* Calculation of National Income using <u>Income Method</u> , Wages - 2100 - Compensation d Employees - Rent - 750 Tara Clothing → Interat, 320 Operating Surphas > Prolit - <u>7130</u> Factor cost / ₹300 Factor Income → Whatever is produced by a producing unit is distributed among factors of production. -> Operating Surplus = Rent + Interat + Profit Income from property Income from entreprenership Represents the Prisme earned by businesses & entrepreneurs from their productive activities Op Surplus = Income from prop + Income from entrepreneur



# National Income = Domestic Income + NFIA NNPFC = NDPFC + NFIA

Que Calatta Mational income (	and the talk Office of
Yues:- Calculote Matterial income pr	om the following:
	₹ in crotes ,
Compensation of employees	520 -
× Factor income to abroad	30
Net factor in come from Obroad.	70
Net indirect Taxes	40 x
Income from property ~	310 + Rent, Int
Rent 0	60 x
Mixed income of Sell employed	605
Prolits I J	420
D	
NNPrc = $520 + 70 + 310 + 60.5$	5+420
= ₹ 1925 crores	

.....

![](_page_25_Figure_0.jpeg)

![](_page_26_Figure_0.jpeg)

![](_page_26_Figure_1.jpeg)

Personal Income = National Income
(-) Income earned but not Received
+ 9ncome Received but not earned

![](_page_27_Figure_0.jpeg)

![](_page_28_Figure_0.jpeg)

-leg-		Fin crores
0		
	NDPFC	8000
	NFIA	200 +
	Undistributed prolits	1000(-)
	Corporate Tax P	500 ()
	Int rec by households	1500 +
	9nt paid by househol	ds 1200 -
	Transfer Income	300+
	Personal Tax	500
	Net Int Paid	
	1 1200-150	0 = (300)
'P	ersonal Yncome = 800	0+200-1000-600
	+ 16	00-1200 +300
	<i>ज</i> ₹730	ספ
	- 0	
	Disposable Versonal Income	<i>-</i> 7300 – 500
	•	= ₹6800

From the following data, calculate NNP<sub>FC</sub>, NNP<sub>MP</sub>, GNP<sub>MP</sub> and GDP<sub>MP</sub>.

Items	₹in Crores
Operating surplus — Rent, 9nt 8 prop.	2000 -
Mixed income of self-employed	- 1100
Rent ·X	550
Profit 🗙	800
Net indirect tax	450
Consumption of fixed capital - Dep	400
Net factor income from abroad	-50
Compensation of employees . Wages	1000

1.	NNPFC =	2000 +	1100 -50	+100	00	
		4050				
2.	NNPmp =	NNPFG	+ Indirect	Taxes	-Subsidy	
	-	4050	+ 4SD		J	
	5	4500				
3	GINPMP =	NNPMP	+ Deb			
		4600 +	400			
	<i>z</i>	4900	•			

4. GIDPMP = GINPMP - NEIA => 4900 - (50) = 4950

#### ILLUSTRATION 7 -

Calculate the aggregate value of depreciation when the GDP at market price of a country in a particular year was ₹ 1,100 Crores. Net Factor Income from Abroad was ₹ 100 Crores. The value of Indirect taxes – Subsidies was ₹ 150 Crores and National Income was ₹ 850 Crores.

GIDPMP = 1100 , NFIA = 100 , NIT. ISO NNPEG = 850

<u>GIDPMP = NNPFC + Dep - NFIA + NIT</u> 1100 = 850 + Dep - 100 + 150 Dep = ₹200 crores

![](_page_32_Figure_0.jpeg)

![](_page_33_Figure_0.jpeg)

From the following data, estimate National Income and Personal Income.

Items	₹. in Crores
Net national product <u>at m</u> arket price	1,891
Income from property and entrepreneurship accruing to government administrative departments	(45)
Indirect taxes -ganore	175
Subsidies gnore	30
Saving of non-departmental enterprises $\checkmark$	(10)
Interest on National debt — Transfer Income	+ 15
Current transfers from government - Transfer Journe -	<b>+</b> 35
Current transfers from rest of the world	+ 20
Saving of private corporate sector eorning	25
Corporate <u>profit ta</u> x	25

National grume = N	INPMP .	- Indirect To	xes + Sc	ibsidics
(NNPEC) =	1891 -	-175+3	D	
3	1746			
Private gnome =	NNPFO			
	1746 -	45 -10 +15	+35+2	ი
Private grame =	1761			•
Business - Pr	olit IOC	) - National	Inome	
Private Sector	6			
Income	Dividend	Retained	Ταχ	
	40	20	40	Roup
-	-			

## Personal gnume = 1746 - 45 - 10 + 15 + 35 + 20 - 25 - 25

## Household = 7 1711

#### **ILLUSTRATION 8**

On basis of following information, calculate NNP at market price and Disposable personal income

Items	₹ in Crores
NDP at factor cost - Domestic Income	14900
Income from domestic product accruing to government	(150)
Interest on National debt - Transfer Income	+ 170
Transfer payment by government	+ 60
Net private donation from abroad - Transer	+ 30
Net factor income from abroad	+ 80
Indirect taxes ~ggnore	335
Direct taxes - Personal gnome Tax	100 -
Subsidies - Janon	262
Taxes on corporate profits	( 222 )
Undistributed profits of corporations	(105)
NINPMP = NIPPY + NEIA +	Indirect Tax - Subside
	325 - 261
= 15052	
Dercanal UU000-160 L1	10 + 60 + 20 + 20 - 222 - 105
$\frac{1}{9}$	10 + 00 + 30 + 80 - 222 103
Jnume - 17103	
Dercon al 111762	- 100
$\frac{19100}{100} = \frac{19100}{100}$	- 100
$J_{12}$ $POSODIE JNOME = 19653$	
•	

Calculate (1) Privote Income (11) Personal income & (111) Personal Disposable income kg-

	₹
National Income - NNPEC	3000
Savings of private corporate Sector -	30
Corporate Tax -	80
Current transfers from Grovt.	60
gnome from property & entrepreneurship to Grovt	150
Current transfers from rest of the world	50
Savings of 0 non-departmental govt. sector	40
J Net Indirect Taxes	250
Direct taxes paid by howehold ~	100
Net Lactor income from abroad	(01)
0 0	-
] Private groome	
J 3000 + 60 - 150 + 50 -	.4D
= ₹2920	-

2] Personal Income = 2920 - 30 - 80=  $\frac{2810}{2810}$ 3] Personal Disposal Income =  $\frac{2810 - 100}{2710}$ 

8)	Personal	income exc	ludes:
- 4			

(a) NFIA

(b) Corporate tax ----

- (c) Personal Tax
- (d) Current transfers
- 9) Total income of households from all sources is known as:
- a) personal income
- b) private income
- c) personal disposable income
- d) None of the above

10) Which of the following is added to national income while calculating personal income?

(a) Transfer payments to individuals

(b) Undistributed profits of corporate

(c) Transfer payments made to foreigners

(d) Mixed income of self employed

![](_page_38_Figure_0.jpeg)

![](_page_39_Figure_0.jpeg)

#### Data requirements and Outcomes of Different Methods of National Income Calculation

Method	Data required	What is measured	
Phase of Output: Value added method (Product Method)	The sum of net values added by all the producing enterprises of the country	Contribution of production units	
Phase o <mark>f income</mark> : Income Method	Total factor incomes generated in the production of goods and services	Relative contribution of factor owners	
Phase of disposition: Expenditure method	Sum of expenditures of the three spending units in the economy, namely, government, consumer households, and producing enterprises	Flow of consumption and investment expenditures	

![](_page_40_Figure_0.jpeg)

![](_page_41_Figure_0.jpeg)

$$\begin{array}{rcl} & & & \text{Iotal Sales} - & & & \text{IIO0.000} \\ & & & & \text{Opstock} - & & & \text{IIO.000} \\ & & & & & \text{Opstock} - & & & \text{IIS.000} \end{array} \end{array} \\ & & & & & \text{Value of output} - \\ & & & & \text{Change Instock} \\ & & & & \text{IO0.000-IO.000+IS000} \\ & & & & & & \text{IO5000} \end{array} \\ & & & & & & = & & & \text{IO5000} \end{array} \\ \end{array}$$

Calculate National Income by Value Added Method with the help of following data-

Particulars	₹ (in Crores)	
Sales 🗸	700	
Opening stock 🖌	500	
Intermediate Consumption	350	
Closing Stock	<b>4</b> 00	
Net Factor Income from Abroad	- 30	
Depreciation	- 150	
<u>Excise Tax</u> -	- 110	
Subsidies	50	

GIVAMP = Value of Output - Intermediate cons.  $\begin{bmatrix} 700 - 500 + 400 \end{bmatrix} - 350$ GIDPMP = 250 NNPFC = GIDPMP - Dep + NFIA - Indired Tax + Subsidy = 250 - 150 + 30 - 110 + 50 = ₹10 Crores

Calculate national income by value added method.

	Particulars	(₹ in crores)
	Value of output in primary sector	2000
	Intermediate consumption of primary sector	200
	Value of output of secondary sector	- 2800
-	Intermediate consumption of secondary sector	800
	Value of output of tertiary sector	- 1600
	Intermediate consumption of tertiary sector	600
-	Net factor income from abroad	-30
-	Net indirect taxes	300
	Depreciation	470

GIDPMP = (2000 -200) + (2800 -800) + (1600-600) = 4800

NNPFC = 4800 - 470 - 30 - 300 = = 4000

Calculate Net Value Added by Factor Cost from the following data

Items	₹ in Crores	
Purchase of materials	85	
Sales	- 450	
Depreciation	20	
Depreciation	50	
Opening stock	- 40	
Closing stock	30	
Excise tax -	45 Intermediate cons.	
Intermediate consumption	200 - Already Includes	
Subsidies	15 Puchase of Material	
$G_{VAMP} = (450 + 30 - 40) -$	- 200	
240		
NVAFC = GVAMP - De	eb - Ind Tax + Subsidy	
= 240 - 30 - 4s	s <sup>1</sup> +1S J	
= ₹ 180 Crores-		

## ILLUSTRATION 10 Rent. Int. Profit

Calculate the Operating Surplus with the help of following data-

Particulars	₹in Crores	
Sales	- 4000	
	000	
Compensation of employees	- 800	
Intermediate consumption	- 600	
Rent	400	
Interest	300	
Net indirect tax –	- 500	
Consumption of Fixed Capital - Dep	200	
Nixed Income	400	

NDPrc = Comp of employees + op Surplus + Mixed Income of Selfemp.  $\rightarrow$  GIDPMP = 4000 - 600 = 3400NDPrc = 3400 - 200 - 500 = 2100 2100 = 800 + Op Surp + 400op Surp = 1500

## Homeworks:

Calculate <u>'Sales'</u> from the followi	ing data :	
Particulars	₹ in Lakhs	
Subsidies	200	
Opening stock	100	
Closing stock	-600	
Intermediate consumption	3, <u>000</u>	
Consumption of fixed capital Oep	700	
Profit	750	
Net value added at factor cost	2,000	
GVAMP = NVAFC + De = 2000 + 700 = 2500 GvAMP Q500 = [Sales + Ohange 2500 = Sales + 600 Sales = ₹5000	2b + Inditax -Sub. 0 + 0 - 200 of output e in stock] - Intermed - 100 - 3000	(Ons

Calculate NI with the help of Expenditure method and income method with the help of following data:

Items	₹in Crores
Compensation of employees	✓ 1,200
Net factor income from Abroad 🦩	20
Net indirect taxes / /	
Profit	~ 800
Private final consumption expenditure	- 2,000
Net domestic capital formation	770
Consumption of fixed capital -	- 130
Rent	400
Interest	620 Alleady
Mixed income of self-employed	- 700
Net export	30 /
Govt. final consumption expenditure	— 1100
Operating surplus	1820
Employer's contribution to social security scheme	300

Income Method -NDPFC - 1200 + 1820 + 700 = 3720 National Income = 3720 + 20 = 3740 <u>NNPFC</u> Exp. Method , GIDPMP = 2000 + 770 + 130 + 30 + 1100 = 4030 NNPFC = 4030 - 130 + 20 - 120 = 3800

From the following data calculate (a) Gross Domestic Product at Factor Cost, and (b) Gross Domestic Product at Market price

1

Items	₹in Crores
Gross national product at factor cost 🖈	61,500
Net exports	(-) 50
Compensation of employees	
Rent	- 800
Interest	900
Profit	1,300
Net indirect taxes	
Net domestic capital formation	$^{800}$ ) in the
Gross domestic capital formation	900'/100-04
Factor income to abroad	80

Income Mothod  $NDPFC \cdot 3000 + 800 + 900 + 1300$  = ₹6000GIDPFC = NDPFC + Dep = 6000 + 100= ₹6100

Calculate NNP<sub>FC</sub>. By expenditure method with the help of following information -

Items	₹in Crores	
Private final consumption expenditure 🗸	10	
Net Import CExport - Imp) C20)	20	
Public final consumption expenditure 🖌	05	
Gross domestic fixed capital formation	350	
Depreciation	<u>30</u>	
Subsidy	100	
Income paid to abroad	20	
Change in stock -	30	
Net acquisition of valuables	10	

 $GDP_{MP}, 10 - 20 + 05 + 350 + 30 + 10 = 385$ 

NNPFC = 385 - 30 - 20 + 100 Z

Calculate Gross Domestic Product at market Prices (GDP<sub>MP</sub>) and derivnational income from the following data (in Crores of  $\mathfrak{F}$ )

Inventory Investment	+ 100
Exports	+ 200
Indirect taxes 🖌	100
Net factor income from abroad	- 50
Personal consumption expenditure	+ 3500
Gross residential construction investment	+ 300
Depreciation	50
Imports	<u> </u>
Government purchases of goods and services $\checkmark$	+ 1000
Gross public investment	+ 200
Gross business fixed investment	+ 300

## GIDPMP = ₹5500 NNPFC - GIDPMP - Dep +NFIA - NIT = 5500 - 50 - 150 - 100 = ₹5300

method. Show that it is the same as that obtained by expendit				
Personal Consumption 🖌	+ 7,314			
Depreciation 🧹	800			
Wages	+ 6,508			
Indirect Business Taxes	1,000			
Interest	+ 1,060			
Domestic Investment	┣ 1,442			
Government Expenditures	+ 2,196			
Rental Income	+ 34			
Corporate Profits	+ 682			
Exports	+ 1,346			
Net Factor Income from Abroad 🥄 🚽	40			
Mixed Income	+ 806			
Imports	- 1,408			

Find  $GDP_{MP}$  and  $GNP_{MP}$  from the following data (in Crores of  $\mathfrak{F}$ ) using income method. Show that it is the same as that obtained by expenditure method.

Expenditure Method GIDPMP - 10890 GINPMP - 10890 + 40 = 10930

11) The concept of 'resident unit' involved in the definition of GDP denotes

(a) A business enterprise which belongs to a citizen of India with production units solely situated in India X
(b) The unit having predominant economic interest in the economic territory of the country for one year or more irrespective of the nationality or legal status
(c) A citizen household which had been living in India during the accounting year and one whose economic interests are solely in India X
(d) Households and business enterprises composed of citizens of India alone living in India during the accounting year X

12) Read the following statements and answer the following question.
1. Intermediate consumption consists of the value of the goods and services consumed as inputs by a process of production.

J. Intermediate consumption excludes fixed assets whose consumption is recorded as consumption of fixed capital.

(a) Only I is true

(b) Both I and II are true

Cheating

(c) Only II is true

(d) Neither I nor II is true

13) Which of the following does not enter into the calculation of national income?

- (a) Exchange of previously produced goods
- (b) Exchange of second hand goods
- (c) Exchange of stocks and bonds
- (d) All the above 🗸

50 - value add 150 - Output 14) Read the following statements I. 'Value added' refers to the difference between value of output and purchase of intermediate goods. II. 'Value added' represents the contribution of labour and capital to the production process. (a) Statements I and II are incorrect (b) Statements I and II are correct  $\nabla$ (c) Statement I is correct and II is incorrect (d) Statement II is correct and I is incorrect Non-economic activities are (a) those activities whose value is excluded from national income calculation as it will involve double counting- Intermediate (b) those which produce goods and services, but since these are not exchanged in a market transaction they do not command any market value (c) those which do not involve production of goods and services as they are meant to provide hobbies and leisure time activities (d) those which result in production for self consumption and therefore not included in national income calculation 16) Which of the following enters into the calculation of national income? change in

Raw Mot. 100

J Stock

- (a) The value of the services that accompany the sale  $\checkmark$
- (め) Additions to inventory stocks of final goods and materials イ
- (c) Stocks and bonds sold during the current year Financial Trans.
- (d) (a) and (b) above

1	Personal Income			8000
2	Mixed Income of self employed		+	2000
3	Compensation of employees		+	1600
4	Net-factor Income from abroad		~	-200
5	Rent		+	1500
6	Personal Income Taxes			800
7	Profit		+	1400
8	Consumption of fixed capital			600
9	Direct taxes paid by households			900
10	Non-Tax Payments			1000
11	Net Indirect taxes			700
12	Net Exports Taxes			-180
13	Interest		+	1100
a) $6300$ b) $7400$ c) $8200$ d) None of the above				

	•				
1	18) Operating Surplus using the below data is:				
	[	Particulars	₹ (In Crore)	-	
		Sales 🗸	4,000		
		Compensation to employees	800		
		Intermediate consumption 🗸	600		
		Rent	400		
		Interest			
		Net indirect taxes -	500		
		Consumption of fixed capital -	200		
		Mixed income	400		
GDPMP = 4000 - 600					
$a) 800 = 3400 \rightarrow NUPP(r) 3400-200-000$				- 000	
NDPrc = Comp + Op. Surp + Mixed inc.					
	$a_{100} = 800 + 00 + 400$				
	a, 1200	06 Surp= 1507	6		

![](_page_61_Figure_0.jpeg)

### Which Method is more suitable?

- Ideally, all the three methods of national income computation should arrive at the same figure.
- Each method of measuring GDP is subject to measurement errors and each method provides a check on the accuracy of the other methods.
- By calculating total output in several different ways and then trying to resolve the differences, we will be able to arrive at a more accurate measure than would be possible with one method alone.
- Moreover, different ways of measuring total output give us different insights into the structure of our economy.

Income method may be most suitable for developed economies where people properly file their income tax returns.

With the growing facility in the use of the commodity flow method of estimating expenditures, an increasing proportion of the national income is being estimated by expenditure method.

#### Most suitable method for INDIA?

As a matter of fact, countries like India are unable to estimate their national income wholly by one method.

Thus, in the agricultural sector net value added is estimated by the production method, in the small scale sector net value added is estimated by the income method and in the construction sector net value added is estimated by the expenditure method.

### NATIONAL INCOME ACCOUNTING

National Income Accounting, pioneered by the Nobel prize-winning economists Simon Kuznets and Richard Stone

It is the system of macro-economic accounts from the stage of production of goods and services to the stage of their final disposal.

![](_page_63_Picture_3.jpeg)

![](_page_63_Picture_4.jpeg)

It helps to meet the needs of Government, private analysts, policy makers and decision takers.

The Central Statistical Organisation (CSO) in the Ministry of Statistics and Programme Implementation (MoSP&I) is responsible for the compilation of National accounts statistics.

At the State level, State Directorates of Economics and Statistics (DESs) have the responsibility of compiling their State Domestic Product and other aggregates

![](_page_63_Picture_8.jpeg)

![](_page_63_Picture_9.jpeg)

**GOVERNMENT OF INDIA** 

MINISTRY OF STATISTICS AND PROGRAMME IMPLEMENTATION

### THE SYSTEM OF REGIONAL ACCOUNTS IN INDIA

Regional accounts provide an integrated database on the innumerable transactions taking place in the regional economy and help decision making at the regional level.

At present, practically all the states and union territories of India compute state income estimates and district level estimates.

State Income or Net State Domestic Product (NSDP) is a measure in monetary terms of the volume of all goods and services produced in the state within a given period of time (generally a year) accounted without duplication.

Per Capita State Income is obtained by dividing the NSDP (State Income) by the midyear projected population of the state.

In the preparation of state income estimates, certain activities such as railways, communications, banking and insurance and central government administration, that cut across state boundaries, and thus their economic contribution cannot be assigned to any one state directly are known as the 'Supra-regional sectors' of the economy.

The estimates for these supra regional activities are compiled for the economy as a whole and allocated to the states on the basis of relevant indicators.

#### USEFULNESS AND SIGNIFICANCE OF NATIONAL INCOME ESTIMATES

- Businesses to forecast the future demand for their products.
- The estimates of national income show the composition and structure of national income in terms of different sectors of the economy, the periodical variations in them and the broad sectoral shifts in an economy over time.
- Sectoral contribution to National Income information is used by the government to decide various sector-specific development policies to increase growth rates.
- National income statistics also provide a quantitative basis for macroeconomic modelling and analysis, for assessing and choosing economic policies and for objective statements as well as evaluation of governments' economic policies.
- National income estimates throw light on income distribution and the possible inequality in the distribution among different income categories. It facilitates the process of comparisons of structural statistics, such as ratios of investment to growth, taxes proceeds and fiscal deficit, or government expenditures to GDP.
- International comparisons in respect of incomes and living standards assist in determining eligibility for loans, and/or other funds or conditions under which such loans, and/ or funds are made available.
- Combined with financial and monetary data, national income data provides a guide to make policies for growth and inflation.

#### **GDP & WELFARE**

Can the GDP of a country be taken as an index of the welfare of people in that country?

There are many reasons to dispute the validity of GDP as a perfect measure of wellbeing. In fact, GDP measures our ability to obtain many requirements to make our life better; yet leave out many important aspects which ensure good quality of life for all. GDP measures exclude the following which are critical for the overall wellbeing of citizens:

- Income distributions and, therefore, GDP per capita is a completely inadequate measure of welfare. Countries may have significantly different income distributions and, consequently, different levels of overall well-being for the same level of per capita income.
- Quality improvements in systems and processes due to technological as well as managerial innovations which reflect true growth in output from year to year.
- **Productions hidden from government authorities**, either because those engaged in it are evading taxes or because it is illegal (drugs, gambling etc.).
- Non market production and Non-economic contributors to well-being for example: health of a country's citizens, education levels, political participation, or other social and political factors that may significantly affect well- being levels.
- The disutility of loss of leisure time. We know that, other things remaining the same, a country's GDP rises if the total hours of work increase.

Total hours of work T - GIDPT Leisure time J. Welfare J

- Economic 'bads' for example: crime, pollution, traffic congestion etc which make us worse off.
- The volunteer work and services rendered without remuneration undertaken in the economy, even though such work can contribute to social well-being as much as paid work.
- Many things that contribute to our economic welfare such as, leisure time, fairness, gender equality, security of community feeling etc.,
- Both positive and negative externalities which are external effects that do not form part of market transactions
- The distinction between production that makes us better off and production that only prevents us from becoming worse off, for e.g. defence expenditures such as on police protection. Increased expenditure on police due to increase in crimes may increase GDP but these expenses only prevent us from becoming worse off. However, no reflection is made in national income of the negative impacts of higher crime rates. As another example, automobile accidents result in production of repairs, output of medical services, insurance, and legal services all of which are production included in GDP just as any other production.

## LIMITATIONS AND CHALLENGES OF NATIONAL INCOME COMPUTATION

There are innumerable limitations and challenges in the computation of national		
income. The task is more complex in underdeveloped and developing countries.		
Following are the general dilemmas in measurement of national income.		
There are many conceptual difficulties related to measurement which are difficult		
to resolve, such as:		
(a) lack of an agreed definition of national income,		
(b) accurate distinction between final goods and intermediate goods,		
(c) issue of transfer payments,		
(d) services of durable goods,		
(e) difficulty of incorporating distribution of income,		
(f) valuation of a new good at constant prices, and	-	
(g) valuation of government services	-	
	-	
Other challenges relate to:		
(a) Inadequacy of data and lack of reliability of available data,		
(b) presence of non-monetised sector,	-	
(c) production for self-consumption,	-	
(d) absence of recording of incomes due to illiteracy and ignorance,	-	
(e) lack of proper occupational classification, and		
(f) accurate estimation of consumption of fixed capital		

![](_page_68_Picture_2.jpeg)