



Child Protection Index Computation Methodology

1. Approach:

A composite index helps to group a number of indicators falling under different dimensions in a standardized way. It is a useful statistical measure to assess overall performance of a region over a period of time. A total of 48 indicators that fall under three broad dimensions were used to calculate the overall composite index. The three broad dimensions are:

- i. Results for Children
- ii. Human Resource
- iii. ICPS Structure and Functionality

List of indicators for each of the dimensions are provided in Annexure-I.

All the districts' relative positions are identified under four indices that are computed from the data available for the 48 indicators. The four indices are:

- i. Index Results for Children
- ii. Index Human Resource
- iii. Index ICPS Structure and Functionality
- iv. Index Overall

2. Methodology for computing index:

The identified indicators used for computation of index might be either positive or negative. The indicators that are positively associated with child protection are considered as positive indicators and the ones that are negatively associated are considered as negative indicators. Before computing the four indices, it is required to calculate the index value for individual indicator for each district. The index value is calculated on the basis of nature of the indicator, i.e. positive indicator or negative indicator.

2.a. Positive Indicator

Let X_{id} represent the value of the i^{th} indicator in the d^{th} district of a state (i = 1,2,3,.....48; d = 1,2,3,.....32). Index has been calculated for 32 districts in Tamil Nadu.

If an indicator X_i is positively associated with child protection, like Percentage of children (children in need of care and protection or children in conflict with law) for whom Individual Care Plan exists, index is computed using the following formula:

Index Value
$$X_{id} = \frac{X_{id} - Min(X_{id})}{Max(X_{id}) - Min(X_{id})}$$

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2.b. Negative Indicator

If an indicator X_i is negatively associated with child protection, like children (children in conflict with law) whose cases are pending for more than 90 days, index is computed using the following formula:

Index Value
$$X_{id} = \frac{Max(X_{id}) - X_{id}}{Max(X_{id}) - Min(X_{id})}$$

Where Min (X_{id}) and Max (X_{id}) are, respectively, the minimum and maximum of $(X_{i1}, X_{i2}, X_{i3}, ..., X_{in})$ for that particular indicator across districts in a State.

The normalized index values of each of the n indicators for a district are then combined by using simple average to arrive at dimension specific composite index for each districts as follows:

Dimension specific Composite Index for dth district =
$$\frac{\sum_{i}^{n} \chi_{id}}{n}$$
*d = 1, 2, 3...32; 27 districts i = 1, 2, 3...n; n indicators

In the above formula "n" as number of indicators varies for all the districts for the three dimensions. E.g., In Human Resource dimension there are 21 indicators, Results for Children has 14 indicators and ICPS Structure and Functionality has 13 indicators.

To calculate the overall composite index across three dimensions, the following formula is referred:

Equal weightage is given to all the index values while calculating the composite index. Composite index ranges from 0 to 1. Values nearing to 0 implies poor performance while values nearing to 1 implies better performance.

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<u>Annexure – I: List of Indicators used in computing index</u>

Composite Indicators	SI. No.	Indicators ("i")
Index- Results for Children	1	Percentage of Children (CNCP) for whom ICP exists
		Percentage of Children (CCL) for whom ICP exists
		Percentage of Children ordered to shelter in Special Home
		Percentage of Children (CNCP) Covered in After care programme
		Percentage of Children (CCL) Covered in After care programme
	6	Percentage of Children (CNCP) for whom Social Investigation Report (SIR) is submitted
	7	Percentage of Children (CCL) for whom Social Investigation Report (SIR) submitted
	8	Percentage of Children counselled on committing offences more than once
	9	Percentage of children (CNCP) cases pending for more than 120 days
	10	Percentage of Children (CCL) Cases pending for more than 120 days
	11	Percentage of children received victim compensation fund
		Percentage of children awaiting adoption for more than 90 days
		Percentage of children pending under sponsorship scheme
		Percentage of Children who are in Foster Care
		Percentage of Children covered in Sponsorship scheme
		Percentage of Home Study Reports completed for PAPs
		Percentage of Children who are being adopted
		Percentage of child marriage cases stopped
		Percentage of child labourers rehabilitated through back to school programme
		Percentage of child labourers enrolled who drop out of school after rehabilitation
Index - Human Resource	21	Percentage of missing children found
	22	Percentage of CWCs with all posts filled (One Chair and four members)
	23	Percentage of female member in CWC
	24	Percentage of JJBs with all posts filled (One Chair and two members)
	25	Percentage of female member in JJB
	26	Percentage of SJPUs with all posts filled
	27	Percentage of female members in SJPU
	28	Percentage of DCPUs with all sanctions filled (12numbers of staffs)
	29	Percentage of Police Stations with at least one CWPOs
	30	Percentage of female CWPOs available in police stations
	31	Percentage CCIs staff members who received training on Juvenile Justice
	32	Percentage of members in CWC who received training
	33	Percentage of members in JJB received training
	34	Percentage of members in SJPU received training
	35	Percentage of members in DCPU received training in last quarter
Index - ICPS Structure and Functionality	36	Percentage of District Child Protection Committee (DCPC) set up
	37	Percentage of Block level Child Protection Committee (BLCPC) set up
	38	Percentage of Village level Child Protection Committees (VLCPC) set up
	39	Percentage of Collector DCPC headed review meetings
	40	Percentage of CCIs registered under JJAct
	41	Percentage of sittings held by CWC in the prescribed time period
		Percentage of sitting held by JJB
		Percentage of (CNCP) cases resolved by CWC in the prescribed period
		Percentage of (CCL)cases resolved by JJB
		Percentage of ICPS funds utilised in the prescribed period
		Percentage utilisation of victim compensation fund
		Percentage of Quarterly Progress Report (QPR) submitted
		Percentage of CCIs submitted Monthly Report (MR) before DCPO
	1	
Index - Overall		Comprises of all the three dimensions

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