

## Tracking The Status of Forest Rights Act, 2006 and its Impact on the Livelihood of Tribal Communities in Wayanad District of Kerala, India

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#### ABSTRACT

Tribal population is the aboriginal inhabitants of India who have been living a life based on the natural environment and have cultural patterns congenial to their physical and social environment. Realizing the disadvantage position of forest dwelling communities, Government of India passed The Schedule Tribe and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (FRA). The act aims at granting legal entitlement, empowerment and improvement of livelihood by way of various provisions of the act, but due to lack of proper awareness and impediments in the implementation this goal was not fully achieved. The present study was conducted in the tribal majority district of Kerala, Wayanad, where FRA was implemented to strengthen the social security and livelihood improvement of forest dwelling communities. This study attempts to enlighten the status and progress of FRA in Wayanad along with its impact on the major tribal communities. The assessment of impact on socio-economic and livelihood improvement was done based on the primary data collected from 160 households of four tribal communities viz., Paniya, Kuruma, Kattunaika, and Urali, which are the predominant communities found in the study area. Study revealed that Kuruma community found to have 'very good' socio-economic condition after the implementation of Act. There are positive outcomes in terms of socio-economic status and livelihood progress of other communities as well but the difficulties in realizing rights and utilizing it lead to the poor impact of FRA, 2006 on them.

#### Highlights

• Even after 11 years of implementation of FRA, 2006, the impact of act remains meager among the major beneficiaries due to lack of awareness and defective governance.

**Keywords**: FRA, 2006, Individual Land Rights (ILR), Community Right, Developmental Rights, Tribal livelihood

Tribals or 'Adivasis', are the aboriginal inhabitants of the World. Since time immemorial they have had an integral and close knit relationship with the forest and have been dependent on the forest for livelihoods and existence. Indian forests are home to 8.2 per cent of the nation's population and it is over 84 million people according to 2011 census. Even though they were leading a symbiotic relationship with the forests their customary rights for living, possessing and earning livelihood from the forests were not recognized properly. The

suffering for the tribals in every way, especially their right to livelihoods besides disturbing the traditional forms of conservation and management of forest ecosystem started during the early 19<sup>th</sup> century itself when the colonial regime was ruling the country. This injustice was continued even after the independence in the name of conservation and protection of forests. Ever since, they have been living under the threat of eviction, because of the Indian forest legislature was inadequate in addressing the rights of the tribal. This "historical



injustice" has also led to alienation of tribals from their ancestral land which has weakened their social and economic status (Anitha *et al.* 2015).

As most of the tribals live in the forest and natural environment which are far away from the civilized societies, their socioeconomic status is so poor that it warranted a concerted effort on the part of the Government. Further, inadequacy of constitutional safeguards for the tribal communities has made them one of the most vulnerable and exploited communities in India. Realizing the disadvantage position of the tribal communities, the Central Government passed a bill to formulate "Recognition of Forest Rights Act 2006" to protect the interests of tribal communities (Anitha et al. 2015). The Act aims at making amends to historical injustice establish clear property rights; develop synergistic opportunities between sustainable livelihoods and conservation and community empowerment (Madhusudan, 2012).

The progress of implementation has been slow all over India even after 11 years of its implementation (Aggarwal, 2012). The correct and timely implementation of the Act would have made the forest dwelling tribals a major stakeholder of forest management and also improved their socio-economic conditions. But the results of the implementation in terms of management of forest resource and improvement in living conditions of forest dwelling tribal communities is far from what was initially conceived as the implementation is marred with various issues. Thus it becomes important to critically assess the progress of implementation of FRA in various states in India so that the implementation process can be improved and can contribute to the welfare and development of the tribal communities.

The present study examines the implementation of FRA in Wayand district of Kerala which is one of the better performing states in the country when it comes to the promise and performance of FRA, 2006 (Anonymous, 2016). The paper is based on the results of empirical study undertaken in Wayanad and throws light on whether a right based regime can contribute to livelihood improvement by assessing the impact on the socio-economic development of the tribals after the implementation of the Act. At present, there is no comprehensive study that analysed the implementation of FRA and

its impact on livelihood of tribals in Wayanad thus it becomes important to bring forward the ground realities and issues which can be the possible causes of poor implementation and can form basis of learning for other states in India.

### Forest Rights Act, 2006 (FRA)

In its preamble, the scheduled Tribes and Other traditional Forest Dwellers (Recognition of Forest rights) Act, 2006, recognizes the historical injustice meted out to Scheduled Tribes and other traditional forest dwellers. It seeks to secure traditional rights over forest land and community forest resources and establish democratic community based forest governance.

FRA recognizes 14 pre-existing rights of forest dwellers on all categories of forestland, including protected areas. The major rights are:

- Individual Forest Rights (IFRs) and Community Rights (CRs) of use and access to forest land and resources;
- Community Forest Resource (CFR) Rights to use, manage and govern forests within the traditional boundaries of villages; and
- Empowerment of right-holders, and the Gramasabha, for the conservation and protection of forests, wildlife and biodiversity, and their natural and cultural heritage (Section 5, FRA)

Developmental rights, the FRA also provides powers to the Government for diverting forest land to build schools, dispensaries, anganwadies, fair price shops, electric and telecommunication lines, drinking water facilities, etc. However, the FRA makes it clear that the forest land, which can be diverted for other uses, is less than one hectare (for any single use) provided the felling of trees does not exceeds 75 trees per hectare.

## Objectives of the study

The objective of the study is to assess the progress and status of FRA implementation in the Wayanad district of Kerala and analyse the impact of act on the livelihood and socio-economic improvement of tribal population in the area. Since only few Community forest rights have been vested in the district, the focus of study is on the Individual Land Rights which is mainly concerned with the securing of livelihood of tribal communities. The



specific research objectives pertaining to the study are, to assess the status and progress of FRA, 2006 in Wayanad andto analyse the impact of FRA, 2006 on the socio economic and livelihood aspects of different tribal communities in Wayanad.

#### DATA AND METHODOLOGY

The data for the study was collected through interactions with various stakeholders like the Government officials responsible for the implementation at the state level including officials of the welfare department, forest department, panchayath offices, Kerala institute for Research Training & Development studies of Scheduled Castes and Scheduled Tribes (KIRTADS), tribal societies and tribals. For addressing the research questions secondary data was collected from Wayanad Wildlife Division, Sulthan Bathery, Integrated Tribal Development Office (ITDP), Kalpetta, published literatures, newspaper articles, Government and non-government reports etc. For the second part, a primary questionnaire survey of tribal households, vested with Individual Land Right (ILR) was conducted by authors in the year 2018. A total of 160 households were surveyed in the four ranges selected from the district and from each range, 40 households belongs to four dominant communities in the study area were selected (Table 1). The households selected were on the basis of random sampling. The basis for selecting the ranges are, number of Scheduled Tribes residing in the area vested with the FRA titles and safety and accessibility to conduct study.

Table 1: Sampling structure (In numbers)

Damass	Triba	Total			
Ranges	Kattunaickka	Urali	Paniya	Kuruma	
Kurichiyatt	10	10	10	10	40
Muthanga	10	10	10	10	40
Sulthan Bathery	10	10	10	10	40
Tholpetty	10	10	10	10	40
Total	40	40	40	40	160

# Development of the socio-economic framework

In order to capture the impact of FRA, 2006 on the various tribal communities a socio economic framework was developed in line with the work of Khosla and Bhattacharya (2018). Various descriptive indicators, indicators for livelihood improvement and indicators for socio-economic improvement are considered in the study in consultation with various experts and stakeholders of the act.

## Selection of appropriate indicators

Ravindranath *et al.* (2011) have used Principal Component Analysis (PCA) to identify the significant indicators and eliminate non-significant indicators. As recommended by Harman (1967), only factor loadings of 0.3 or more were considered as significant. The selected 20 indicators obtained the factor loadings of more than 0.3. For the present study cut-off value of the communality values were also decided as 0.30. Surprisingly, all the 20 indicators maintained the communality values more than the cut off 0.40. Thus no indicators were rejected at this point of analysis. The mean communality value of the 20 indicators after extraction was more than 0.70 (Table 3).

## Assignment of weights to the indicators

Kaiser normalisation and scree plot were used to identify the initial eigenvalues greater than one. According to the number of eigenvalues greater than one, the same numbers of components were extracted by using varimax rotational method for each indicator. Then, the method followed by Feroze and Chuhan (2010) was adopted for this study to assign the weights to the indicators. The initial eigenvalues above one were identified.

According to the number of eigenvalues above one, the same numbers of rotated components were extracted for each variable. Now, the extracted rotated component matrix was multiplied by the eigenvalues, i.e., the 1st eigenvalue was multiplied with the 1st extracted component column and 2nd eigenvalue was multiplied with the 2<sup>nd</sup> extracted component column, considering only absolute values. The values obtained were added in case of each indicator to get the weight for that particular indicator. Similarly, weights were obtained for all other indicators.). Weights of 20 indicators were further tabulated (Table 2). The importance of identified indicators was fixed according to their weightages and the indicators with higher weightage had the comparative importance than the indicator with lower weightage.

Table 2: Communalities and weightage of indicators

No.	Parameter	Indicator		factor analysis unalities	Weightage
			Initial	Extraction	
P1.	Stability of	1. Type of house	1.000	0.699	2.630516
	Household structure	2. Size of house	1.000	0.783	4.280877
P2.	Basic infrastructure	Basic infrastructure 3. Energy source			3.120895
		4. Electricity	1.000	0.556	2.834999
		5. Road facility	1.000	0.440	3.503597
Р3	Social participation	6. Family members attending awareness classes on FRA	1.000	0.661	3.888208
		7. Total memberships in social groups (NGO's¹, Kudumbasree, EDC²,VSS³, Gramapanchayatetc)	1.000	0.678	3.094873
P4	Area under IFR	8. Size of IFR vested under FRA	1.000	0.781	4.520546
P5	Asset structure	9. No. of consumer durables possessed by the family	1.000	0.603	3.92322
		10. Farm assets possessed by the family	1.000	0.759	4.900196
		11. Livestock possessed by the family	1.000	0.750	2.336079
P6	Income diversification	12. Income from agriculture and livestock	1.000	0.802	4.512171
		13. Income from forest related activities (Vista clearing, fire line making, anti-pouching camp,	1.000	0.825	
		watcher etc.)			2.42749
		14. Income from NTFP	1.000	0.889	3.136444
P7	Employment	15. Employment form agriculture and livestock	1.000	0.835	4.322834
	opportunities	16. Agricultural labour	1.000	0.696	4.479464
		17. Forest related activities (Vista clearing, fire line making, anti-pouching camp, watcher etc)	1.000	0.914	3.344883
		18. NTFP collection	1.000	0.782	2.152296
P8	Literacy rate	19. Education of the respondent	1.000	0.674	3.206742
P9	Family size	20. No. of family members	1.000	0.840	1.598358

<sup>&</sup>lt;sup>1</sup>Non-Governmental Organisations<sup>2</sup> Eco-Development Committee <sup>3</sup>Vana Samrakshana Samithi.

## Normalisation of data

The indicators have to be normalised to bring the values within a comparable range. (Piya *et al.* 2012). Min-Max method of normalisation was adopted for the study (Feroze and Chauhan, 2010). Normalization was done by subtracting the minimum value from the observed value and dividing by range.

#### Computation of the composite score

The normalised indicators were then multiplied with the assigned weights to construct the index scores separately for 20 indicators. Then sum of each multiplication was divided by the grand total weight to obtain the index. Overall composite score was developed with the following formula.

Composite score = 
$$\frac{\sum_{i=1}^{n} x_i \left[ \sum_{j=1}^{n} E_j \left| L_{ij} \right| \right]}{\sum_{i=1}^{n} \left[ \sum_{j=1}^{n} E_j \left| Li_j \right| \right]} *100$$

Where  $\mathbf{x}_i$  is the normalized value of  $i^{\text{th}}$  indicator;  $L_{ij}$  is the factor loading of the  $i^{\text{th}}$  variable on  $j^{\text{th}}$  factor;  $E_j$  is the Eigen value of  $j^{\text{th}}$  factor. The grand total weight for 32 indicators was 68.22.

Table 3: Scheme of classification

Scheme of classification	Class status
>µ + sd	Very good
μ +sd to μ	Good
μ -sd to μ	Fair
< µ - sd	Bad

The status of beneficiaries of FRA, 2006 was calculated with the above given index formula.



Further, the respondents were classified into four categories (Table 3), method followed by Khosla and Bhattacharya, 2018.

#### RESULTS AND DISCUSSION

This section has been organized in two parts, the first part deals with the first research objective of status and progress of implementation of FRA in Wayanad district in terms of right vested. The second part incorporates the result of primary survey pertaining to the various indicators of the Individual Land Right (ILR) vested households thereby assess their socio-economic and livelihood conditions, pertaining to the second objective.

### (I) progress of FRA in Wayanad

Wayanad the panoramic hill of Malabar in the northern Kerala is a homeland of various tribal communities. In Kerala, it is the district with the highest percentage of Scheduled Tribe population - 18.5% as compared to 1.14% for the state as a whole (Census, 2011). These communities are always susceptible to exploitation and are largely marginalized due to their inherent disadvantaged social strata. Story of adivasi land alienation in Wayanad goes back to the late 14th to early 15th century, when the tribal kingdom under the Vedar kings (Mullu Kurumar) was abolished by the rajas of Kottayam, a neighbouring chiefdom.(Munster and Vishnudas, 2012). The continued land dispossession and violent alienation made Wayanad's adivasis a predominately landless labourers today, living in overcrowded colonies, with Adiyar, Paniyar, Kattunaikar and Urali Kurumar belonging to the poorest section of Wayanad's society, most vulnerable to exploitation and structural violence .As most of them live in the forest and natural environments which are far away from the civilized societies, their socioeconomic status is so poor that it

warranted a concerted effort on the part of the state. Therefore in order to make amends to historical injustice, establish clear property rights, develop synergistic opportunities between sustainable livelihoods and conservation and community empowerment FRA was implemented in the state.

Even though the passing of act was accompanied by enormous criticism, Kerala was one of the state Governments to complete the implementation process of FRA in the country (Sathyapalan, 2010). The implementation of FRA was a huge bureaucratic project. To monitor the implementation state Government was requested to form a Subdivisional Level Committee (SDLC), a District Level Committee, a State Level Monitoring Committee (SLMC) and at the ground level Forest rights Committee (FRC). Tribal welfare department is the nodal agency to coordinate the implementation process.

According to the official records as on December 2018, after a eleven yearlong implementation process, majority of the forest dwelling community in the Wayanad district received a FRA land possession certificate, at least for the land upon which their houses stands. For the proper implementation of FRA, 2006, 109 Forest rights Committees were constituted in the district, highest among all the districts of Kerala. Out of the total 7918 individual land right claims received, 4365 (55.12%) titles were issued in Wayanad for an area of 3312.27 hectares. Whereas in case of community rights out of 321 claims received only 124 (38%) granted titles for the rights (Table 4).

Rejection at the Grama Sabha level were highest, out of the total claims received 74.20 per cent was passed during the initial verification process and 55.12 per cent of the total claims were distributed in the district. During the interview with the concerned departmental officials it was observed

Table 4: Progress of FRA, 2006 in Wayanad, as on December 2018- Individual rights (ILR) and community rights

Titles	FRCs	Claims filed	Passed by Gramasabha	Passed by SDLC	Passed by DLC	Granted titles	Extent of land for which titles given (Hectares)
Individual		7918	5875	4450	4450	4365	3312.2
	109	7910	(74.20)	(56.20)	(56.20)	(55.12)	3312.2
Community	109	221	151	125	124	124	
Community		321	(47.04)	(38.94)	(38.63)	(38.63)	

Figures in the parentheses indicate percentage to the total claims filed.

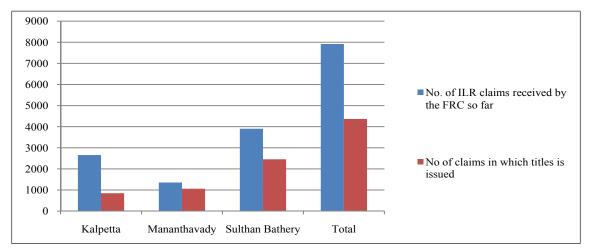


Fig. 1: Distribution of ILR rights in the Wayand district-blockwise

that the numbers of potential ILR households in the districts are unknown even now. Among the three blocks in Wayanad, Sulthan Bathery has the maximum number of ILR title holders followed by Mananthavady and Kalpetta (Fig. 1).

**Table 5:** Progress report of FRA, 2006 as on December 2018- Developmental rights

District	Total no of claims received by FRCs so far	No. of claims passed by the Gramasabha	No. of claims rejected by the Gramasabha	No. of claims passed by Gramasabha and sent to forest Dept.	No. of claims rejected by Forest Dept.	No of claims passed by Forest Dept.	no of claims pending with Forest dept.	No. of claims in which developmental rights are issued
Wayanad	176	176	Nill	176	12	159	5	159 (90.34)

FRA also give authority to the state Government to convert the forest land to build schools, dispensaries, anganwadies, fair price shops, electric and telecommunication lines, drinking water facilities etc. for the development of tribal settlements. There were 176 developmental right claims filed with the

FRCs and 90.34 per cent of them cleared by the forest department. None of the claims were rejected at the Gramasabha level (Table 5).

The ranges wise distribution of Developmental activities taken up by the tribal department showed that, all these activities were taken up with minimum damage to the forest area and maximum numbers of activities were taken up in Sulthan Bathery range.

Out of the total individual land rights, community rights and developmental rights distributed in the state of Kerala, Wayanad is the leading district in the implementation of FRA, 2006 with highest population of tribal communities. But as far as the number and extent of rights delivered to the potential households performance is poor in the recent years due to asymmetric information flow, deficient coordination, undemocratic participation, dearth of transparency and lack of accountability at various levels of implementation which claims to safeguard the basic rights of disempowered local people. Bijayashree, 2017 also concluded the similar reasons for poor implementation and progress of FRA, 2006 in Odisha.

Table 6: Developmental rights under FRA, 2006 range wise (2008-2018)

Range	No. of activities* taken up	Total forest Area allocated (Hectares)	No of beneficiaries	No. of trees cut	
Tholpetty	18	2.28	989	1	
Kurichiat	17	3.61	528	0	
Sulthan Bathery	33	3.54	1996	17	
Muthanga	20	2.78	730	16	

<sup>\*</sup>Electrification, check dam construction, soling of colony, Anganwadi construction, irrigation canal, bus waiting shed, drainage and culvert construction.



# (II) Impact of FRA on tribals socio-economic attributes and livelihood

In order to understand the impact of this act on the livelihood of tribal communities', households were selected from four major tribal communities belonging to four ranges that cover both Sulthan Bathery and Manathavady blocks of Wayanad district where the maximum number of titles are being distributed.

Attributes of the community is a set of variable that affects the arena of implementing the act (Sathyaplan, 2010). The attributes such as size and composition of relevant community, the extent of inequality of basic assets, cultural practices followed by them and their traditional occupation has a bearing on the realization of act provisions. Therefore socioeconomic frame work was constructed for major tribe groups in the study area viz., Kattunaicka, Paniya, Urali, Kuruma. In order to assess the distributional equality of the act index was also constructed for each range.

The descriptive statistics of selected indicators for index construction is provided in Table 7.Stability of the household structure, size of the house, energy source, basic infrastructure facility, social participation, area under ILR, asset structure, income sources, employment generation, literacy, family size were the nine parameters selected for the socio-economic framework. Except family size and social participation all other indicators exhibited a significant difference between the tribal groups under study.

Uralis possessed the maximum number of concrete houses followed by the Kattunaickas. More than fifty per cent of all the communities possessed a pucca or concrete homes. It was a progressive result that showed the government efforts to build the basic amenities to all the marginalized sections of the country. Even though Kurumas were the community having less number of concrete houses, the size of their houses were comparatively large in size. They possessed traditional tiled houses of 30 to 40 years old.

Table 7: Descriptive statistics of the indicators selected for the study

No	Indicator description	Kattunaikkan	Urali	Paniyan	Kuruma
I	Stability of Household structure				
1.	Type of the house				
	a. Huts	0	3 (7.5)	0	0
	b. Katcha	2 (5)	2 (5)	4 (10)	0
	c. Pucca	14 (35)	8 (20)	17 (42.5)	23 (57.5)
	d. Concrete	24 (60)	27 (67.5)	19 (47.5)	17 (42.5)
	$\chi^2 = 23.43***$				
2	Size of the house				
	a. 100-200	0	6 (15)	4 (10)	0
	b. 200-300	12 (30)	1 (2.5)	10 (25)	2 (5)
	c. 300-400	22 (55)	25 (62.5)	21 (52.5)	21 (52.5)
	d.>400	6 (15)	8 (20)	5 (12.5)	17 (42.5)
	$\chi^2 = 36.123***$				
3	Energy source				
	a. Only fuel wood	21 (52.5)	25 (62.5)	16 (40)	11 (27.5)
	b. Kerosene + fuel wood	1 (2.5)	4 (10)	11 (27.5)	0
	c. LPG+ fuel wood	16 (40)	9 (22.5)	11 (27.5)	29 (72.5)
	d. Only LPG	2 (5)	2 (5)	2 (5)	0
	$\chi^2 = 41.51***$				
II	Basic infrastructure facility				
4	Electricity				
	a. Yes	1 (2.5)	0	7 (17.5)	5 (12.5)
	b. No	39 (97.5)	40 (100)	33 (82.5)	35 (87.5)
	$\chi^2 = 10.97**$				

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SRA					
5	Road				
	a. Yes	6 (15)	0	7 (17.5)	0
	b. No	34 (85)	40 (100)	33 (82.5)	40 (100
	$\chi^2 = 8.50**$	` ,	, ,	, ,	`
III.	Social participation				
6	Family members involved in forest related activities				
	a. Yes	19 (47.5)	20 (50)	14 (35)	21 (52.5
	b. No	21 (52.5)	20 (50)	26 (65)	19 (47.5
	F = 1.978 (NS)	, ,	, ,	` ,	`
7	Total memberships in social groups (NGO's, Kudumbasree, EDC, VSS, Grama panchayatetc)				
	a. Yes	34 (85)	33 (82.5)	34 (85)	37 (92.5
	b. No	6 (15)	7 (17.5)	6 (15)	3 (7.5)
	F = 4.117 ***	- ( - )	( "-")	- ( - )	- ( ,
IV	Area under IFR				
8	a. Size of IFR vested under FRA (Average in hectare)	0.263	0.235	0.064	0.377
V	F = 11.758 *** Asset structure	0.20			
9	No. of consumer durables possessed by the family	2	3	2	4
J	F = 3.449 **	2	3	2	4
10	No. of farm assets possessed by the family $F = 2.960 ***$	5	5	4	7
11	Livestock possessed by the family F = 3.073 ***	2	1	4	1
VI	Income sources				
12	Income from agriculture and livestock Rupees per annum)	8371.5	6725.25	3065.50	27671.2
	F = 5.965 ***		01 -01-0		
13	Income from forest related activities (Vista clearing, fire line making, anti-pouching camp, watcher etc.) (Rupees	14466	33502.5	3847.5	41661.5
	per annum) F = 3.057***				
14	Income from NTFP (Rupees/ Annum)	12247.18	3671.25	10467.37	1489.7
	F = 2.703 ***				
VII	Employment generation				
15	Employment form agriculture and livestock (Mandays/Annum)	16.25	10.10	1.35	39.13
	F = 2.732 ***				
16	Agricultural labour (Mandays/Annum) F = 1.784**	83.21	83.40	72.82	32.12
17	Forest related activities (Vista clearing, fire line making,	39.85	123.6	11.58	85.51
	anti-pouching camp, watcher etc.) (Mandays/Annum)				
	F= 2.328 ***				
18	NTFP collection (Mandays/ Annum) F = 5.878 ***	22.15	6.95	8	1.03
VII	Literacy				
19	Education of the respondent (In numbers)				
	a. Illiterate	17 (42.5)	15 (37.5)	23 (57.5)	12 (30
	b. Primary	17 (42.5)	22 (55)	17 (42.5)	16 (40
	c. SSLC	4 (10)	3 (7.5)	0	10 (40
	d. >SSLC	2 (2.5)	0	0	2 (5)
	$\chi^2 = 21.50^{**}$	(۲.۵)	U	U	(ع) کے
IX	Family size				
20	No. of family members (Average)	4	3	3	3
∠∪	140. Of failing members (Average)	4	3	J	3

 $Note: ***Significant\ at\ 1\%\ LOS\ **Significant\ at\ 2\%\ LOS\ Figures\ in\ the\ parenthesis\ indicate\ percentage\ to\ the\ total.$ 

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Fuel wood was the major source of energy for all the communities except Kurumas. Only 27.5 per cent of them preferred fuel wood as the sole source of energy. More than 50 per cent of the Kattunaickka and Kuruma household's single source of energy was fuel wood. When it comes to the basic infrastructure facilities like transportation and electricity majority of the communities had access to both. Social participation parameter was restricted to participation in organizations that works in the line for the development of tribals like Oorukootam, attending FRA awareness classes, participation in Gramasabha, Vana Samrakshana Samithy (VSS) etc. Results showed indifference among the communities with respect to the social participation. Almost 52.5 per cent of the Kuruma households were participating in different social activities followed by 50 per cent, 47.50 per cent and 35 per cent of the Urali, Kattunaickka and Paniya respectively. Memberships in social groups were as high as 92.50 per cent among the Kurumas. Overall asset structure of the household's in terms of consumer durables, farm machinery was also found highest among the Kuruma tribes, whereas livestock possession was highest among Paniyas.

Three major sources of incomes that directly come under the purview of FRA, 2006 was selected as the indicators. They were income from agriculture and livestock, income from forest activities such as vista clearing, anti-pouching, watcher etc. and income from NTFPs. The annual agriculture and livestock income was highest among the Kurumas (₹ 27671.28) followed by kattunaikka (₹ 8371.50), Uaali (₹ 6725.25) and Paniya (₹ 3065.50), least among all. Kuruma also realized a high income from forest activities since many of them were employed as permanent watchers. Urali households also realized a comparatively good income from forest activities. Employment generation from various sources was also considered for the socio-economic framework. Agriculture labour was the major source of employment for the majority of households. Education has a great role in the socio-economic development of the tribal population. Great amount of efforts are being taken up for the literacy improvement among them by local governments and NGO's in the state. The poor interest toward the educational attainment among the tribes is the biggest barrier in this context. Among the sample 57.50 per cent of the Paniyas were illiterate followed by 42.50 per cent of Kattunaickka. Kuruma and Urali comparatively performed better in educational attainment. The better education opportunities provided to the younger generation could open up new occupational opportunities and economic status for the indigenous people (Alex *et al.* 2017).

The composite index score (Table 8) of four communities as well as ranges showed that, among the communities, Kuruma tribes found to have the highest index score of 41.90 classified as very good according to the classification criteria followed by Khosla and Bhattacharya, 2018.Kurumaare the tribal community who believed to have descended from the Vedars, the ancient rulers of this region. Even though the community was mainly dealt with forest products, presently, most of them earn a livelihood thorough agriculture and cattle rearing. Parameter scores are high for Kuruma community that resulted in highest composite index score. In terms of stability of the household structure (P1), the income realized from the various sources especially from agriculture (P6) and the overall asset structure (P5) were especially high for them. They are the group with the highest average land holding among all other communities (Table 7). Kuruma is one of the higher castesamong the tribals of Kerala who were the traditional cultivators and whose average land holding is higher than the average landholding of all other communities in Wayanad (Munster and Vishnudas, 2012). It was one such community who had benefited even during, (Restriction of Transfer of Land & Restoration of Alienated Land) act, 1975, came prior to FRA, 2006 for correcting the issues of land alienation due to the proper land titles they maintained due to the social advantage they bear as compared to other comparison groups. This study also ascertains the improved condition of these communities as compared to rest of the tribal groups. High literacy rate among them (70% possess basic education)and the higher social participation has also resulted in better realization and utilization of land rights. Their involvement in NTFP collection was negligible but income generation from agriculture and livestock was significantly high as compared to other tribal communities. Legal right to cultivate on the forest land that they were cultivating before had made them better-off than the other communities. But



Table 8: Socio-economic framework of the tribals- community wise and range wise

	Community	P1	P2	Р3	P4	P5	P6	P7	P8	P9	Composite score	Condition
1	Kattunaickan	8.63	8.42	3.70	1.33	5.35	1.51	5.40	1.21	0.86	36.41	Good
2	Urali	8.17	8.26	3.73	1.18	6.43	1.28	5.67	1.10	0.86	36.68	Good
3	Paniya	8.04	7.67	4.03	0.31	4.78	0.81	3.33	0.67	0.86	30.48	Bad
4	Kuruma	10.30	8.77	3.36	1.87	7.99	2.73	4.44	1.65	0.81	41.90	Very good
	Ranges											
1	Kurichyatt	8.54	8.60	3.30	1.55	7.12	1.78	4.03	1.65	0.73	37.29	Good
2	Muthanga	9.45	8.21	4.29	1.21	5.64	1.65	4.97	0.90	0.82	37.18	Good
3	S. Bathery	8.66	8.62	3.18	1.32	6.46	1.97	5.40	1.06	1.00	37.65	Good
4	Tholpetty	8.46	7.70	4.05	0.61	5.32	0.93	4.43	1.02	0.84	33.36	Bad

**Note:**  $P_1 \dots P_q$  are parameters (Refer Table 2 for details).

the households addressed their growing concern of continuing the cultivation due to the increased human animal conflict.

Urali tribal community stands next with a score of 36.68 classifies as 'Good'. Uralis, the most versatile and colourful tribal people, is one of the rarest artisan tribes in Kerala. Their participation in Participatory Forest Management and other forest works was found to be higher as compared to the other communities. Their dependence on FRA related livelihood activities are comparatively less. Many of them depend on income from the daily wage earning. They hold an average IFR holding of 0.24 hectares. Due to wild animal attacks and unprofitable income they are reluctant to engage in agriculture. Their dependence on forest for their fuel wood requirements is to the extent of 62.5 per cent.

Kattunaicka is one of the primitive tribes of Kerala, found significantly in Wayanad. As their name denote, the Kattunaickas were the kings of the jungle regions engaged in the collection and gathering of forest produces. They are known as 'Ten Kurumar' since they collect honey from the forest. They have all the physical features of a hilltribe. They had an index score of 36.41 and classified as 'Good'. Their average IFR landholding is 0.263 hectares in the study area next to Kurumas. Along with NTFP collection they are also engaged in agriculture as well as agriculture labour. They are the major community engaged in honey collection in Wayanad. More than 50 per cent of this tribe depends on fuel food alone as an energy source reveals their high dependence on forest ecosystem. In terms of their livelihood activities FRA, 2006 place a major role that gives them legal authority to collect and sell the forest produce.

Among all the tribal communities, paniya tribe found to have the least impact from FRA, 2006 in terms of their livelihood realisation and other socio-economic characters. A wide majority of tribes in state of Kerala hail from the Paniya tribal. They inhabit in the regions of Wayanad and the adjacent parts of Kannur and Malappuram. The Paniyas were sold along with plantations by the landlords as bonded labours. Higher castes were employing them as professional coffee thieves. The present study also reveals their social disadvantages status even now. In all the parameters they found to have the least scores. Even though developmental rights are being distributed irrespective of the tribal community, 17.7 per cent homes were not electrified even now. Their social participation is also comparatively less. They possess an average ILR of 0.064 hectares, most of the cases it was only a habitation right. Even though they were engaged in NTFP collection, the major source of income was agriculture labour. Their literacy levels were also poor, 75. 5 per cent are illiterate among them. These also resulted in the poor reachability of act provisions to them and in turn its realization and utilization.

Among all the communities, housing structure and basic infrastructure facility does not varied much. This is because of the equality in the distribution of developmental activities taken up by the Government agencies. All most all the households irrespective of the category had housing structures with basic amenities.



Between range, except Tholpetty all other ranges had a score of 37 ('Good') indicates the equality in distribution. The bad profile of Tholpetty range was due to 4th (area under FRA) and 6th (income sources) parameters. Interview with tribals in Tholpetty revealed that due to high human animal conflicts, taking up agriculture is impossible in the area. At the same time, they expressed the lack of relief claims for crop damage due to animals from the side of Government. Therefore, majority of the tribals in Tholpetty are going to bordering states (Kodagu-Karnataka) as agriculture laboureres in coffee and pepper plantations even at a very low wage rate. They also expressed their reduced dependence on NTFP collection and marketing due to the increasing population of vermin.

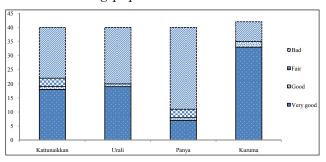


Fig. 2: Socio-economic condition of FRA holders-community wise distribution.

In order to understand, within group situation of households, index score of each household was analysed with the same classification criteria. Frequency distribution is plotted in the graph (Fig. 2). It clearly indicates that among Kattunaickan and Urali communities FRA, 2006 have high as well as low impact on households. Reaping of benefits vary among the community itself. Inter-community conflicts and political influences were the major factors contributing to this inequality as opinioned by the tribal households and various office bearers of the concerned departments. Inherited social class disadvantage was the reason for low impact of FRA among Paniya. Majority of the households were unhappy about the land they received under FRA, 2006. According to them that was not sufficient to find their livelihood even though act promised for it. Lack of proper awareness was another reason for the low performance of FRA among the Paniya tribe.

#### **CONCLUSION**

The central theme of the paper was to throw light

on the implementation status and progress of FRA, 2006 and how this approach impacted the socio-economic conditions of the right holders. From the secondary data analysis, it was observed that even though Wayanad is the progressive FRA implemented district in Kerala, only 55.12 per cent of the ILR claims are being distributed. The unreached potential ILR holders are still unknown. Performance of community right distribution is also lagging in the district due to the lack of interest among the concerned departments. It was observed that implementation did not account for the day to day vagaries and social inequalities of the local communities. Out of the major four tribal groups, only one group had high impact on their socioeconomic life. Even though the primary objective was to amend the historic injustice, it was not completely achieved with this approach. The socially disadvantaged class of then are continued to be the one even now without much improvement in their way of life. After 11 years of its implementation the focus of FRA should continue be on the livelihood improvement and land development of tribal communities. Increasing human animal conflict also became a huge concern for these indigenous populations since for most of them forest land is even nowact as an identity of existence. The primary level data analysis also revealed the same. There socio-economic conditions of the communities vary across even though act provisions are for all. This is mainly because of the difference in their community culture & practices, political influences and intra and inters community conflicts. Therefore act should take care of such difference that really affects the arena of implementation. For the Act to be successful in future it is obligatory that the awareness of the tribals should be improved with reverence to the rights granted to them under the Act. The Government authorities, specifically the forest and tribal welfare departments, who work so closely with the forest dwelling tribals, should take up the role of abetting agency that supports in the knowledge enhancement of communities for better FRA implementation and livelihood enhancement.

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