## Identification of Rhetorical Roles of Sentences in Indian Legal Judgments Supplementary Information

## 1. Sentence level agreement scores between the annotators

As described in the paper, we have three human annotators  $A_1, A_2, A_3$ . To measure the sentence-level agreement of their annotations, we compute the sentence-level agreement matrix between each pair of annotators, as described in the paper. The sentence level agreement matrix for the annotators  $A_2$  and  $A_3$  has been given in the paper. Here we shown the corresponding matrices for the other two annotator-pairs.

The sentence level agreement matrix (computed as described in the paper) for annotators  $A_1$  and  $A_3$  is presented in Table 1. This annotator pair has an overall agreement of 0.874 (average F-score) as measured by the GATE tool. This pair has the highest agreement among all the 3 pairs.

Similarly, the sentence level agreement matrix for annotators  $A_1$  and  $A_2$  in shown in Table 2. They have an overall agreement of 0.81 (average F-score) as measured by the GATE tool.

$A1 \downarrow A3 \rightarrow$	FAC	ARG	PRE	STA	Ratio	RLC	RPC
FAC	2154	8	0	3	34	<u>11</u>	0
ARG	29	827	0	0	0	0	0
PRE	0	0	1464	0	19	0	0
STA	0	0	0	639	10	0	0
Ratio	6	0	4	4	3511	1	0
RLC	<u>36</u>	1	0	0	_25	305	0
RPC	6	0	0	0	21	0	262

 $\textbf{Table 1.} \ \ \text{Sentence level agreement between annotators A1 and A3}$ 

Table 2. Sentence level agreement between annotators A1 and A2

$\boxed{ \textbf{A1}\downarrow \textbf{A2} \rightarrow}$	FAC	ARG	PRE	STA	Ratio	RLC	RPC
FAC	2207	12	0	0	10	2	0
ARG	3	816	16	1	0	0	0
PRE	0	<u>11</u>	1429	0	28	0	0
STA	0	0	0	642	2	2	0
Ratio	2	13	0	1	3604	0	0
RLC	<u>16</u>	0	0	0	0	301	0
RPC	0	0	0	0	0	0	262

## 2. Average Inter-Annotator Agreement (IAA) across domains

As stated in the paper, we have documents from five domains of Law. We report in Table 3 the average IAA F-score for the labels across each domain. We can observe that inter-annotator agreement is uniform across different domains (as mentioned in the paper).

Table 3. Average IAA across different domains, and across different labels, in terms of F-score as measured by GATE

$\textbf{Domain} \downarrow \textbf{Labels} \rightarrow$	ARG	FAC	PRE	Ratio	RLC	RPC	STA	Macro Average (across domains)	
Land & Property	0.883	0.808	0.823	0.79	0.841	0.789	0.888	0.831	
Constitutional	0.851	0.865	0.837	0.8125	0.945	0.807	0.926	0.863	
Criminal	0.784	0.8265	0.801	0.7925	0.777	0.833	0.931	0.821	
Intellectual Property	0.786	0.802	0.913	0.764	0.840	0.742	0.944	0.827	
Labour & Industrial	0.825	0.829	0.758	0.7995	0.800	0.858	0.858	0.818	
Macro Average (across labels)	0.826	0.826	0.826	0.792	0.841	0.806	0.909	_	

## 3. Dataset Statistics

The final curated gold standard dataset used in the experiments contained 9,308 sentences in total. The gold standard label for each sentence was decided based on the majority agreement among the three annotators, as stated in the paper. Some statistics on the dataset are presented in Table 4.

Table 4. Statistics of the gold standard corpus

Labels	Ratio	FAC	PRE	ARG	STA	RLC	RPC
% of total sentences	38.63%	23.13%	15.65%	9.00%	6.88%	3.36%	2.79%
Avg. length of sentences (#words)	26.28	22.29	25.04	29.00	32.13	28.32	16.61