

Annexure -II

Statement showing the reduction in Dam height of Lower Orr Project vis-à-vis reduction in benefits against saving forest area.

Elevation in m (Reduction in reservoir level)	Area in ha	Capacity in MCM	Forest area in ha	Saving of Forest Area in %	Reduction in Capacity in %	Loss in Culturable Command Area (CCA) in ha	Loss of annual irrigation in %	Loss of Annual Irrigation in ha	Loss of annual irrigation due to reduction in dam height in %
380	2723.7	371.802	968.24			45047		67570	
379	2589.9	345.237	920.68	4.91	7.14	41529	7.81	60449	10.54
378	2472.1	319.929	878.80	9.24	13.95	38239	15.11	55660	17.63
377	2349.3	295.825	835.15	13.75	20.43	35129	22.02	51133	24.33
376	2241.3	272.874	796.76	17.71	26.61	32186	28.55	46850	30.66
375	2118.7	251.077	753.18	22.21	32.47	29409	34.72	42807	36.65
374	1946.3	230.758	691.89	28.54	37.94	26837	40.42	39064	42.19
373	1821.1	211.924	647.38	33.14	43.00	24471	45.68	35620	47.29
372	1709.4	194.275	607.67	37.24	47.75	22269	50.57	32414	52.03
371	1641.9	177.52	583.67	39.72	52.25	20191	55.18	29390	56.50
370	1587.9	161.371	564.47	41.70	56.60	18199	59.60	26490	60.80

The proposed Lower Orr dam project will provide Annual Irrigation to the tune of 67,570 ha benefitting 193 drought prone and water scarce villages in Shivpuri and Datia district of Madhya Pradesh. Provision of 6 MCM water is kept for providing drinking water facility in the enroute of the link canal of 91km. Total

submergence area of the project is 2724 ha which includes 968.24 ha of forest. Total 12 villages will be affected due to submergence of the project, out of which 7 villages fully and 5 villages partially affected. Total population of 2939 numbers of 870 families will be affected. In context of reducing the dam height and minimising the submergence of the forest areas, it is clarified that if dam height is reduced by 5 m (i.e. reservoir EL 375 m), the reduction in the forest is 22% (215 ha), whereas the storage capacity of the reservoir will reduce by 37% (120.73 MCM), thus by reducing of 5 m dam height the annual irrigation will be reduced to 21940 ha. If the dam height is further reduced by 5 m (i.e. upto reservoir EL 370 m), the reduction in forest area will be 404 ha (42%), whereas the loss of the storage capacity would be 211 MCM (64%) and annual irrigation will be reduced to 38,243 ha (57%), which is critically required for the success of rabi irrigation and last irrigation (in the event of early withdrawal of the monsoon) for saving the kharif crops. In view of this, the reduction in the full reservoir level (FRL 380 m) will substantially reduce the benefits and deny the aspirations of the beneficiaries.