

## **REFERENCE SHEET OF TERMS OF REFERENCE (TOR)**

<b>Sl. No.</b>	<b>Points</b>	<b>Reference</b>
i	Compliance status of the stipulated conditions of Environmental Clearance for the existing power project shall be provided.	Annexure- 1.1
ii	The part site details as well as ash pond to be depicted in topo sheet may be provided.	Chapter-1, Section -1.1, Page-2, Drawing No.-02.
iii	The study area should cover an area of 10 km radius around the proposed site.	Chapter-1, Section- 1.5, Page-5
iv	Land use of the study area as well as the project area shall be given.	The project proposed is within the existing premises of NBVL, which is an industrial land already acquired earlier. Chapter-3, Section-3.5, Page No.- 51 to 53. Drawing No.- 05.
v	Location of any National Park. Sanctuary, Elephant / Tiger Reserve (existing as well as proposed), migratory routes, if any within 10 km of the project site shall be specified and marked on the map duly authenticated by the Chief Wildlife Warden.	Chapter-3, Section-3.3, Page No.- 48 to 49. Drawing No.- 03.
vi	Land requirement of the project shall be optimized. Item wise break up of land requirement and its availability to be furnished. The norms prescribed by CEA should be kept in view. It should also include land to be acquired, if any, for local transportation system as well as for laying pipeline. It may clearly be confirmed that the land is free of all encumbrances. The issues relating to land acquisition and R & R should be clearly discussed in the EIA report.	Chapter-2, Section-2.4, Page No.- 13 to 14. The project proposed is within the existing premises of NBVL, which is an industrial land, fairly barren without any encumbrances, already acquired earlier. The proposed project does not attract R & R plan. Local transportation system and facilities for drawl of water is already available.
vii	Topography of the area should be given clearly indicating whether the site requires any filling. If so details of filling, quantity of fill material required, its source, transportation etc. should be given.	Chapter-3, Section-3.3, Page No.- 48 to 49.
viii	Impact of the project on drainage of the area and its surroundings should be indicated.	Chapter-4, Section-4.6, Page No.- 108.
ix	Details of the Geo technical and hydrological studies should be provided.	Chapter-3, Section-3.4, Page No.- 49 to 51. The proposed project is not using

		any ground water resource and the proposed project site is within the existing plant premises for which geotechnical studies have been carried out earlier.
x	Information regarding surface hydrology and water regime and impact of the same, if any due to the project should be provided.	Chapter-4, Section-4.6, Page No.- 108.
xi	One season site specific meteorological data shall be provided.	Chapter - 3; Section – 3.6; Page -54 to 57. Fig. -3.1 (a) -3.1 (d).
xii	One complete season AAQ data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall include SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> , Hg, The location of the monitoring stations should be so decided so as to make into consideration the pre-dominant downwind direction, population zone and sensitive receptors including reserve forests. There should be at least one monitoring station in the upwind s\direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.	Chapter - 3; Section – 3.7; Page -57 to 67.
xiii	Impact of the project AAQ of the area should be provided along with details of the model used and the input data used for modeling. The air quality contour may be plotted on a location map showing the location of the project site, habitation nearby, sensitive receptors, if any. The wind roses should also be shown on this map.	Chapter- 4, Section- 4.4.1.2, Page no.- 97 to 107, Fig. – 4.1 & 4.2
xiv	Fuel analysis to be provided (sulphur, ash content and heavy metals including Pb, Cr, As and Hg). Details of auxiliary fuel, if any including its quantity, quality, storage etc, should also be given.	Chapter-2, Section- 2.7.2, Page no.- 42, Table- 2.7, 2.8 & 2.9.
xv	Quantity of fuel required, its source and transportation. A confirmed fuel linkage should be provided.	Chapter- 2, Section- 2.6.2, Page no.- 19.
xvi	Source of water and it availability. Commitment regarding availability of requisite quantity of water from the competent authority may be provided.	Chapter- 2, Section- 2.7.1, Page no.- 34. Annexure- 2.1 & 2.2.

xvii	Details of rainwater harvesting and how it will be used in the plant may be provided.	Chapter- 7, Section- 7.3, Page no.- 145 to147.
xviii	Examine and feasibility of zero discharges. In case of any proposed discharge, its quantity, quality and point of discharge, users downstream etc. should be provided.	Chapter-2, Page 37- 40. Chapter -4, Section 4.6, Page – 108. The plant has adopted zero discharge concept; thereby not discharging any treated effluent to outside.
xix	Optimization of Cycles of Concentration (COC) for water conservation shall be made Other water conservation measures proposed in the project should also be given Quality of water requirement for the project should be optimized.	Chapter-2 , Section- 2.5, Page - Page 16, Fig-2.2, & 2.5(page -36).  RO system will be adopted to recycle 1574 m <sup>3</sup> / day of water and rainwater harvesting system is also proposed to be implemented towards water conservation measures.
xx	Details of water balance taking into account reuse and re-circulation of effluents should be provided.	Chapter-2, Section- 2.7.1, Page - 34- 41. Fig. - 2.5.
xxi	Details of greenbelt i.e land with not less than 1500 trees per ha giving details of species width of plantation, planting schedule etc. should e provided.	Chapter- 4, Section- 4.7.2, Page no.- 109 to 110.
xxii	Detail of evacuation of ash along with details plan of ash utilization/ management should be provided.	Chapter-2, Section- 2.6.7, Page - Page 33 to 33. Fig. - 2.4.
xxiii	Details regarding ash pond impermeability including soil analysis report and whether it would be lined, if so details of the lining etc.	The project is having existing ash mound, the disposal of ash is in solid form. The same practice will be adopted during the proposed project; hence no lining is required. Chapter-2, Section- 2.6.7, Page - Page 30 to 33. Fig. - 2.4. Section -2.8.3, page – 44 to 45, Annexure- 2.3.
xxiv	Details of R & R plan/compensation package in consonance with the National/State R & R Policy for the project affected people including that due to fuel transportation system. pipeline, if any, shall be prepared taking into account the socio economic status of the area, homestead oustees, landless labourers.	The proposed project does not attract R & R plan

	An action plan with budgetary provisions shall be submitted.	
xxv	Details of activities to be taken up under CSR for this project with budgetary allocation should be submitted.	Chapter-8, Section- 8.5, Page -149 to 151.
xxvi	Details of flora and fauna duly authenticated should be provided. In case of any scheduled fauna, conservation plan should be provided.	Chapter-3, Section- 3.15, Page -79 to 86. Authentication is in progress.
xxvii	Details regarding infrastructure facilities such as sanitation, safety during construction phases etc, to be provided to the workers during construction as well as operation phase.	Chapter-4, Section- 4.2.1, Page -91 to 93.
xxviii	Public hearing points raised and commitment of the project proponent on the same, as action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.	Not applicable at present
xxix	Measures of socio economic development to the local community proposed to be provided by project proponent may be provided. As far as possible quantitative dimension to be given. Impact of the project on local infrastructure of the area such as road network and whether any additional infrastructure and the agency responsible for the same with time frame may be indicated.	Chapter- 8, Page 148 to 151.
xxx	EMP to mitigate the adverse impact s due to the project along with item wise cost of its implementation to be provided.	Chapter- 6, Page 128 to 130.
xxxi	Risk assessment including fire and explosion issues due to storage and use of fuel should be carried out. It should take into account the maximum inventory of storage at site at any point in the time. The risk contours should be plotted on the plant layout map clearly showing which of the proposed activities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures should be provided. Measures to guard against fire hazards should also be provided	Chapter- 7, Page 131 to 144, Fig- 7.1 & 7.2.