

Committee's recommendation on the accident due to roof collapse of the Machine Shop at Bokaro TPS'B' on 23.06.2003. :

1. A complete history of the structure may be compiled by DVC including the various issues pertaining to the structure.
2. The safety of the building and structures need to be addressed in the safety manual for information of all concerned at the power station.
3. The measures required in conformity with National building Code, relevant B.I.S. Standards and the safety manuals as applicable to the specific structures at the power stations may be indicated in the manual so that the officers at the power station are aware of what is required to be done.
4. Buildings and structures shall be inspected at regular intervals and the required measures taken well in time and suitable mechanism within the organization developed for timely action in this regard.
5. A Registered Architect and a Structural Engineer shall be engaged by the organization for design & supervision of building works in accordance with National Building Code and relevant B.I.S Standards.
6. The over-sizing of the building and structures shall be avoided. The circumstances leading to over-sizing of the machine shop building & structure and clubbing the two repair shops indicated in the layout plan into one single unit shall be examined by DVC.
7. The seepage control measures, additions & alterations and their impact on the structural safety of buildings and structures need to be examined.
8. The trusses should have adequate camber to protect against stresses due to deflection.
9. The procedure followed for coordination at the design, fabrication, erection and commissioning stage may be examined by DVC.
10. The design and fabrication issues pertaining to inadequate truss-column connections, lack of bearing brackets, the inadequate splicing connections and other connections as well as no welding or riveting of joints, may be looked into by DVC.
11. The maintenance measures including tightening & replacement of nuts & bolts at the connections as well as no welding or reverting of connections; need to be examined by DVC.
12. The failure of structure may be got analysed by an academic Institute/ Engineering College for an in depth study of the structure.