

(b) the Government of India have been in constant touch with the Government of Ceylon to safeguard the interests of Indian nationals affected by these measures.

**ROOF COLLAPSE AT STEEL MELTING SHOP
AT Rot'RKri.A**

*129. SHRI M. K. MOHTA :

SHRI K. CHANDRASEKHARAN :
SHRI LOKA NATH MISRA : SHRI
LAL K. ADVANI : SHRISUNDAR
SINGH BHAN-

DARI:

SHRI SUNDAR MAM PATEL :
SHRI JAGDISH
PRASAD

MATHUR: SHRI NIREN
GHOSH : SHRI
MONORANJAN ROY : SHRI
N. G. GORAY : SHRIK. C.
PANDA :

Will the Minister of STEEL AND MINES/
इस्पात और खान मंत्री be pleased to State :

(a) whether the Committee appointed to go into the cases of roof collapse at the Steel Melting Shop in Rourkela has submitted its report to Government ; and

(b) if so, the findings of the Committee and the action taken/proposed to be taken by Government thereon ?

THE MINISTER OF STEEL AND MINES/
इस्पात और खान मंत्री (:SHRI S.
MOHAN KUMARAMANGAIAM) : (a) Yes,
Sir.

(b) \ Statement is [aid or, the Table
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STATEMENT

Findings of the Committee	Recommendations of the Committee	Action taken by the Government
The Committee has come to the following important conclusions :	The major recommendations are :	The findings and recommendations of the Technical Enquiry Committee have been accepted by the Chairman, HSE has been asked to take necessary action against all those held responsible by the Committee for the conditions leading to the accident. He has also been fixed and specified. All requested to take necessary steps to ensure that the technical and managerial deficiencies pointed out by the Committee are removed and necessary Safety checks are undertaken not only in Rourkela but also in other Steel Plants of HSL, capital investments are made
(a) There was a similar accident but on a much smaller scale in 1963; although following the report of the Enquiry Committee set up on that occasion some instructions for the maintenance of the buildings were issued, no definite, and detailed follow-up action was taken, and strengthened, wherever required.	(a) A regular inspection system must be established for periodical inspection of all buildings, galleries etc. in action against all those held responsible by the Committee for the conditions leading to the accident. He has also been fixed and specified. All requested to take necessary steps to ensure that the technical and managerial deficiencies pointed out by the Committee are removed and necessary Safety checks are undertaken not only in Rourkela but also in other Steel Plants of HSL, capital investments are made	
(b) The procedure laid down for cleaning of roofs and removing the iron dust deposited on the S. M. S. roof was not entirely satisfactory.	(b) Performance reports of important items where large should be submitted within	a period of one year after commissioning. These should indicate the performance in terms of capacity and financial justification,
(c) The cleaning of the Steel Melting Shops roof was not adequately supervised. The Contractor did not employ a sufficient number of labourers nor did he perform his task in accordance with the contract. This was mainly responsible for the collapse of the roof.		(c) The cleaning of the roof is best done departmentally, as it would be easier
(d) There was no set procedure or agency for inspection of buildings and structures.	to exercise control and to	ensure that there is no negligence in this respect,

Findings of the Committee	Recommendations of the Committee	Action taken by the Government
<p>(c) A gas cleaning plant for the L. D. Converter was installed in 1967/69 at a cost of Rs. 1.2 crores to prevent pollution of the atmosphere. Although the guarantee tests were performed and found satisfactory, the plant was not kept running for alleged lack of manpower and some minor mechanical difficulties. Had this Plant been in operation the dust deposited on the roof would have been practically nil. As this was not a production unit sufficient attention was not paid to this matter.</p> <p>(l) The collapse of the roof was brought about by overloading. This was caused because of heavy accumulation of dust on the roof nearest to the L.D. converters particularly on the monitor. The density of this dust increased by about 25% during the heavy rainfall on the night of 11/12 July. There was also choking of drains and downtake pipes as a result of the Commission to clean the roof properly. This also contributed to the overloading of the structure. All this resulted in the collapse of the monitor roof, which, in turn, damaged a roof column and caused the disaster in the manner in which it occurred.</p> <p>(g) The LD Plant and buildings were designed and erected by Messrs VOEST of AUSTRIA on a turn-key basis. The building was designed according to German Specification DIN 1050. Although the roof was designed to take a live load of 30 Kg/sq. metre and a point load of 100 Kg. at the worst location, it could take a much higher load of about 120 Kg/sq. meter without the point load.</p> <p>(h) The metallurgical tests conducted on the samples from collapsed roof structure showed that running quality steel had been used in the roof structure which is permitted in German Specification DIN 17100 (St. 37). The collapse of the structure was due however, to overloading due to the dust on the roof and not to the quality of steel.</p>	<p>(d) A survey should be made of the plant and equipment lying idle in all Steel Plants and steps taken to recommission these.</p> <p>(e) The management-labour relationship should be improved.</p> <p>(f) To enable the General Manager to devote more time to his primary responsibility of getting the maximum output of steel, he should be relieved of certain direct responsibilities by reorganising and introducing one or two senior officers of appropriate grades under him.</p>	