

(b) and (c). Do not arise.

Industrial Pollution

7717. SHRI PARASRAM BHARDWAJ:
Will the Minister of ENVIRONMENT AND
FORESTS be pleased to state:

(a) whether industrial air pollutions
affect trees particularly mango trees;

(b) if so, whether any efforts have been
made to check the industrial air pollutants
and save the vegetation; and

(c) the efforts made to save the trees so
affected and whether any research has
been done in this regard?

THE MINISTER OF STATE IN THE MIN-
ISTRY OF ENVIRONMENT AND FORESTS:
(SHRI Z.R. ANSARI): (a) Industrial air pollu-
tants adversely affect vegetation including
mango trees.

(b) The steps taken to check the indus-
trial air pollutants include the following:

- i. Emission standards have been speci-
fied for major air polluting industries.
- ii. Consents are required to be taken
under the Air (Prevention and Con-
trol of Pollution) Act, 1981, amended
in 1987, for setting up industries.
- iii. Air pollution control areas are
notified depending on the pollution
load due to industries and other
activities.
- iv. Industries have been directed to in-
stall pollution control equipment
within the specified time schedule as
per consent orders issued by the
Pollution Control Boards.
- v. Guidelines for siting of industries
have been evolved.
- vi. Legal action is taken against
defaulting units.
- vii. A network of ambient air quality
monitoring stations has been set up.

(c) Twelve research projects to study
the response of plants to air pollutants are
in progress. Studies have indicated that
the pollutant injury to plants may be re-
duced by the use of certain chemical
agents which have a protective ability.

Air and Water Pollution in Jharia and Raniganj Coalfields

7718. SHRI MATILAL HANSDA: Will the
Minister of ENVIRONMENT AND FORESTS
be pleased to state the steps taken by
Government to study the extent of air and
water pollution due to open cast mining in
Jharia and Raniganj coalfields?

THE MINISTER OF STATE IN THE MIN-
ISTRY OF ENVIRONMENT AND FORESTS
(SHRI Z.R. ANSARI): Several studies have
been made to determine the extent of air
and water pollution in Jharia and Raniganj
coalfield areas. The major studies are
shown below:

- (i) Air pollution studies with respect to
dust and gases have been carried out
by the Central Mining Research Sta-
tion, Dhanbad, at Jharia and Rani-
ganj coalfields. The study covered
dust fall, suspended particulate mat-
ter, sulfation rate, sulphur dioxide,
nitrogen dioxide, oxidants, carbon
monoxide, etc.
- (ii) Meteorological studies have been
carried out by the Central Mining
Research Station in different areas of
Dhanbad and Jharia coalfields with a
view to co-relating the air pollution
pattern with meteorological data.
- (iii) The Central Board for the Preven-
tion and Control of Water Pollution
has studied the problem of air pollu-
tion in this region.
- (iv) The Central Mining Research
Station has taken up a study on mine
water quality in these areas and for
suggesting suitable treatment
measures for its improvement.