

GOVERNMENT OF INDIA NATIONAL EMPLOYMENT SERVICE

AREA SKILL SURVEY

KANPUR



Directorate General of Employment And Training Ministry of Labour And Rehabilitation

0-732

AREA SKILL SURVEY-KANPUR

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FOREWORD

The main objective of Area Skill Survey is to make an assessment of the current availability of skills and their requirements in the foreseeable future at area level. Besides filling up informational gaps, these serveys have thrown for the first time valuable information regarding avenues of self-employment opportunities that may be generated in the rural areas in the wake of modernisation of agriculture, expanding needs for maintenance and other services. The Expert Sub-Group of the National Employment Service representing State Directors drawn from each of the five zones, Planning Commission and Central Statistical Organisation which, evaluated these surveys besides suggesting certain improvements in the existing methodology and further refinement of techniques, found that the results of the study were of immense value in initiating measures for tackling problem of unemployment at the grass-root level, formulating schemes for expansion of self-employment, Career advice, Training and apprenticeship, Job development, Employment Market Information Programme, etc.

2. The surveys in the case of three areas of Poona, Kanpur and Visakhapatnam were conducted according to the revised and improved methodology. This is the second report in the revised series—the first report already released being for Poona. Some of the important modifications carried out in the improved techniques and methodology relate to women employment, coverage of establishments in the private sector employing 5-9 workers on 100 per cent basis, complete profile of educational and technical institutions, comprehensive listing of establishments employing 1-4 workers in selected villages for assessing the existing avenues of self-employment etc. The degree/level of skill for each occupation has also been ascertained, through a separate technical survey carried out for the first time so that the existing training programmes could be suitably diversified and re-oriented to meet the local needs of the area. It is hoped that the above improvements carried out in the survey report will enhance the utility of the report manifold.

3. I would like to express my thanks to employers and their associations, heads of the training institutions and colleges, State Directorate of Employment and district Officials who extended their co-operation in the fullest measure to make this Survey a success. Thanks are also due to Shri S.M. Sinha, Assistant Director of Employment Exchanges, and other members of the Survey Team for their hard labour in carrying out the survey operations and for their resourcefulness in achieving a high degree of response in the collection of field data.

4. The Survey was organised under the overall direction and charge of Shri J.C. Gupta, Deputy Director of Employment Exchanges, Directorate General of Employment and Training, assisted by Shri Hari Krishan, Assistant Director of Employment Exchanges and other staff. Subsequently Shri V.K. Rajagopalan, Deputy Director of

⁽i)

Employment Exchanges, D.G. E. & T., took over the responsibility from Shri J.C. Gupta. The report has been prepared by Shri Hari Krishan.

5. Comments and suggestions for further improvement from the readers would be most welcome.

ISHWAR CHANDRA

Director General/Joint Secretary to the Government of India

DATED : 28TH APRIL, 1976. Shram Shakti Bhawan, Rafi Marg, New Delhi. Pin : 110001.

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RESULTS AT A GLANCE

Out of the total number of 8291 establishments existing as on 31st March, 1974 as many as 4240 were those which came up during the last seven years period from 1967—74 while the remaining 4051 came into existence in 1966 or earlier. (Chapter - II)

2. The total employment in all establishments as on March 1974 was 2.73 lakhs as against an employment of 2.07 lakhs in March 1967. Of the total employment public sector and private sector accounted for 47.0 per cent and 53.0 per cent respectively. (Chapter - II)

3. Nearly half (48.5 per cent) of the total employed labour force in 1974 was in manufacturing followed by services (30.8 per cent), trade & commerce (9.5 per cent), transport storage and communication (6.2 per cent), electricity, gas, water and sanitary services (2.5 per cent) and construction 2.0 per cent. (Chapter — II)

4. Women represented 4.8 per cent of the total employment in 1974. Almost all the women employees (99.0 per cent) were working in urban areas and only small portion (1.0 per cent) in rural areas.

5. Bulk of the women employees were engaged in services (10.5 thousand) followed by manufacturing (2.0 thousand), transport, storage and communication (0.3 thousand) and trade & commerce(0.2 thousand). (*Ghapter--II*)

6. Only 406 establishments or 4.9 per cent of the total were located in areas classified as rural according to 1971 census. These establishments accounted for an employment of 5.2 thousand in 1974 as against 2.6 thousand in 1967. (*Chapter — II*)

7. The minimum number of seasonal workers employed on single day was reported to be 6.8 thousand as against the maximum of 10.1 thousand. The important industries in which seasonal workers were engaged are manufacturing of bricks & tiles, leather work, milling & dehusking and production of edible fats & oils. (Chapter - II)

8. Wage and salaried employment went up from 2.07 lakhs in 1967 to 2.73 lakhs in 1974 thereby showing an annual rise of 4.6 per cent. The employment is likely to rise further at an annual rate of 3.9 per cent and is expected to reach 3.27 lakhs by 1979. During the period 1967–1979 the annual growth rate of employment works out to 4.8 per cent. (Chapter — III)

9. The employment in public sector increased at an annual growth rate of 3.4 per cent during 1967– 1974 as against an anticipated yearly growth rate of 2.2 per cent by 1979. On the other hand private sector employment is likely to maintain an average growth rate of 5.4 per cent per annum during 1974– 1979 as against the actual yearly growth rate of 5.8 per cent recorded during 1967–1974.

(Chapter — III)

10. Substantial growth in employment during the last seven years in terms of absolute number was recorded in manufacturing (30.7 thousand) followed by services (16.3 thousand), trade & commerce (10.6 thousand) and transport, storage & communication (4.7 thousand). During the next five years manufacturing is expected to show a rise of 31.3 thousand followed by services (12.2 thousand), trade & commerce (5.7 thousand) and transport, storage & communication (2.9 thousand).

(Chapter — III)

11. Industries such as cotton weaving in powerloom, cotton weaving in handloom; cotton cordag rope & belts; carpets & durries; currying, tanning & finishing of hides; basic industrial chemicals; medi cines, pharmaceuticals & cosmetics; smelting, refining & re-rolling of iron and steel, iron & steel furniture' metal products such as tin cans; sundry hardwares and electric lamps & fans are likely to pick up at a faster rate by 1979 as compared to the corresponding actual increases during the past seven years i.e. 1967-1974.

(Chapter — III)

(v)

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⁽Chapter — II)

12. Increases of the same magnitude (23.5 thousand) have been noticed during the past seven years and the next five years in case of production & related workers and transport equipment operators. In case of professional, technical and related workers an increase of 6.7 thousand has been forecast for the next five years as against an actual rise of 8.2 thousand recorded during the past seven years i.e. 1967—1974.

(Chapter — III)

13. Additional opportunities for self-employment could be created to the extent of 50.1 thousand persons in the light of modernisation of agriculture, local produce, other resources, expanding needs for maintenance and other services. Besides allied agricultural fields such as dairy farming; poultry farming; nursery & vegetable cultivation and piggery & sheep rearing, considerable scope for self-employment also exists in such non-agricultural fields as spinning & weaving; carpentry & wood work; retail selling; blacks-mithy; tailoring; oil expelling; brick laying; shoe making & repairing; repairing & servicing of diesel engines and agricultural implements; basket making; pottery; laundering, dying & bleaching; bidi making and fishing & boating. Some of the new fields from the point or self-employment are soap making, tanning & seasoning of leather, kh indiari & g ir making and candle making.

(Chapter - V)

14. Working proprietors and partners of private firms have played an important role in building up of the industrial complex in the rural areas. The principal industries which are the result of individual entrepreneurship are rice, atta & flour, ice & ice-cream, wood & wooden products, leather & leather products, rubber & rubber products, sundry hardwares, bricks & tiles, retail trading in petrol & mobile oil and hotels & restaurants. (Chapter -V)

15. The skill requirements of the area by 1979 will be of the order of 76.6 thousand (excluding unskilled workers who are likely to be of the order of 13.8 thousand). Man-power requirements by broad occupational categories for the next five years, by 1979, will be as follows :--

	Occupational category	Number	Percentage
I.	Professional, technical & related workers	1090)	7 12.1
	(i) Scientists, engineers & technologists	2 153	3 2.4
	(ii) Doctors and medical & health technicians	986	5 1.1
	(iii) <u>r</u> Teachers	6778	3 7.5
	(iv) Accountants, social scientists, & other professionals	990	1.1
II.	Administrative, Executive & Managerial workers	7246	8.0
III.	Clerical & related workers (excluding unskilled office workers)	8952	9.9
IV.	Sales workers	2513	2.8
V.	Service workers (excluding watchmen, chowkidars, cleaners, sweepers watermen)	& 3 150) 3.5
VI.	Farmers, Loggers & related workers (excluding agricultural & plantation labourers)	444	0.5
VII	Production & Related Workers and Transport Equipment operators (excluding labourers)	4 3374	48.0
	(i) Production & related workers	42526	47 .1
	(ii) Transport equipment operators	848	3 0.9
Tota	al:	76580	5 84.8
VIII.	Unskilled workers	13821	15.2
	Grand Total:	90403	7 100.0
			Chapter IV)

16. Slightly less than half of the total manpower needs during 1974-1979 will be for below matriculates (including illiterates). This includes sizeable requirements for production and related workers for whom no formal institutional training or possession of a recognised certificate or diploma has been considered as an essential criterion for recruitment. Another 1/4th of the total jobs will be for recognised certificate holders which includes demand for primary and middle school teachers, production and related workers as well as para-medical workers.

(Chapter-IV)

17. There is a need for strengthening the existing training programme or apprenticeship facilities in respect of following trades:

- 1. Moulder
- 2. Carpenter
- 3. Blacksmith
- 4. Machinist
- 5. Miller
- 6. Grinder
- 7. Welder (Gas and Electric)

18. It is necessary to make modifications in the curriculum of the following designated trades with a view to ensure that the trained personnel meet fully the requirements of the local employers.

- 1. Electrician
- 2. Wiremen
- 3. Moulder
- 4. Plumber

Besides, more emphasis needs to be given for practical training in all the other trades.

(Chapter-VII)

(Chapter VII)

19. As Kanpur is predominantly a textile area, the following additional trades in the textile group need to be brought under the Apprenticeship programme.

- 1. Winder/Reeler
- 2. Sizer (front and back)
- 3. Wrapper (front and back)
- 4. Drawer
- 5. Knitter
- 6. Sam

(Chapter-VII)

20. The following occupations also need to be introduced at the ITIs or included in the Apprenticeship Training programme so that the employers do not feel difficulty in getting such type of personnel.

- 1. Telephone mechanic
- 2. Telephone operator
- 3. Pump driver/attendant
- 4. Armature winder
- 5. Pipe fitter (water works)
- 6. Electrical fitter

(Chapter-VII)

(**vii**)

SCOPE AND METHODOLOGY

An Area Skill Survey is basically a method to determine in respect of a given geographic area, current availability of skills and requirements in the foreseeable future. Of the several methods designed to estimate future manpower needs, Area Skill Surveys have some distinct advantages. Firstly, skill surveys aim at eliciting information by a direct approach to employers and training institutions instead of attempting manpower projections on the basis of assumed growth rates and targets. Secondly, in view of the well known fact that skilled manpower excluding perhaps high level manpower has limited mobility, manpower planning to be effective must be at the area level. Thirdly, in the National Employment Service, with its net work of Employment Exchanges with whom a fund of information about local labour market is available, a base already exists which can be easily developed to undertake the work of collecting additional data required for skill surveys. Finally, because of the simplified process of data collection inherent in Area Survey Programme, a continuous analysis of Labour market can be obtained enabling initiation of remedial measures to remove current and anticipated skill imbalances.

- 2. Broad objectives of Area Skill Surveys are:-
 - (i) to provide information for use in vocational guidance and in initiating an effective career advisory service which depends for its success on a sound knowledge of changing job opportunities in different occupations in the area;
 - (ii) to furnish details for use in job development and placement activities of the Employment Service;
 - (iii) to provide specific information on changes that will be necessary in training and apprenticeship programme to meet future requirements;
 - (iv) to provide information about fields in which financial and other assistance is indicated for promotion of opportunities for employment and self-employment;
 - (v) to provide arca-wise information concerning manpower resources needed in connection with location and expansion of industries;
 - (vi) to study and collate information regarding manpower content of plan schemes and expansion programme envisaged for the area; and
 - (vii) to provide information needed for manpower planning at area or 'grass-root' level.

3. To start with, fifteen districts in the country were taken up for conduct of Area Skill Surveys on pilot basis. The areas taken up for study were drawn from each of the following three types;

- Type A- Highly industrialised urban areas with large skilled labour force and having complex employment market;
- Type B— Districts having a fairly developed urban industrial base as well as rural base characterised by advanced and mechanised agricultural operations;
- Type C-- Predominantly rural areas marked by traditional agricultural activity where there is need for expansion of non-agricultural sector and avenues of self-employment.

4. This report embodies the findings of the survey conducted in Kanpur District according to the revised methodology and techniques suggested by the Expert Sub-group. Some of the more important improvements carried out in the procedures and methodology are as follows:—

- (i) Employment of Women.— Information on current volume of employment of women by occupations and industries which is indispensable for taking up Vocational Guidance and Training programme for women has been obtained and incorporated in the report.
- (ii) Age-wise distribution of employees, separations and engagements during the last 12 months and number of persons promoted.—In view of the considerable difficulties expressed by the employer in furnishing age-wise break up of the employees, the collection of this information has been deleted. Besides a uniform labour attrition rate of 2% per annum has been applied to work out manpower needs arising as a result of labour turnover. As such the collection of information on aspects such as separations and engagements has also not been attempted. The simplification of questionnaire has been welcome by employers and has improved timely response.

(viii)

- (iii) *Emerging and decaying skills.*—Experience has shown that precise information on this aspect has not been forthcoming. Accordingly this item has been deleted from the Employer schedule.
- (iv) Number of vacancies remaining unfilled.—Information regarding number of vacancies against which recruitment was pending in an establishment has been also obtained with a view to having more realistic estimate of manpower needs.
- (v) Employment in Smaller Private Establishments.—Smaller private establishments employing 5—9 workers were earlier covered on 20 per cent sample basis. Experience has, however, shown that constructing of frame of the smaller establishments through street surveys, drawing of sample and then again re-visiting the sampled establishments for the collection of necessary information is a time consuming process. Besides much time has also to be devoted in compilation of data and then bloating it. In order to make it a less cumbersome process information from smaller private establishments has been collected on cent percent basis on a simplified schedule (AS-VII).
- (vi) Training/Apprenticeship programme within the Establishment.—Separate data has been obtained in respect of persons by sex, trained under the Apprenticeship Act 1961 and those under employers' own programme by duration of training, likely out-turn during the next five years.
- (vii) Unemployment.—Data about rural educated unemployed (Matriculates and above) and skilled artisans possessing a recognised certificate has been obtained during the course of door-to-doorsurvey carried out for the purpose of constructing the frame of establishments with 1-4 workers (including self-employed) in respect of 10 per cent of villages selected for the Village Schedule. (AS-V).
- (viii) Existing and future avenues of self-employment in rural areas.—Information on this aspect has been collected earlier through discussions held with village elders, officials and other knowledgeable sources in respect of 10 per cent of villages included in the survey. In view of the doubt raised about the validity of data so collected, information on this aspect has been obtained while constructing the frame of establishment with 1-4 workers (including self-employed) in respect of every village taken up for the survey.
- (ix) Degree/Level of skill.—Although the need for information about manpower needs by occupation has been recognised in organising training programme, an attempt has been made to further grade the skill needs to find out the exact type of training which would be needed to meet the specific requirements of industries at the local level.

5. The approach adopted for collection of information for Area Skill Surveys is based on what is known as 'Establishment Reporting' system. In order to achieve satisfactory response and accurate data, the Enquiry Schedules (Questionnaires—Appendix-I) designed for the survey were collected through personal interviews by trained staff. Following chart outlines the Enquiry Schedules that were canvassed for the collection of information:

Schedule & agencies from whom information was Type of information collected

(ii) AS-I Employers' Schedule

All establishments in the public sector; all establishments in the private sector employing ten or more workers;

(ii) AS-II Schedule for Emerging Establishments

All emerging establishments known to be in the blue-print stage or in different stages of completion on the date of enquiry.

Persons employed by occupation seven years ago and currently;

Working proprietors; Expansion plans and factors hindering existing production or expansion or full utilisation of installed capacity; Future manpower needs by occupation five years hence on the assumption that factors which were limiting expansion or production would be overcome; Manpower shortages; Economic activity; Year of establishment; Women employment etc.,

Likely date of commencement of production or activity; Nature of Economic activity; Likely number of persons to be employed by occupation during next five years.

(ix)

and technical education.	
All institutes, polytechnics, universities etc. impart- ing professional and technical education.	Likely out-turn by courses and professions during next five years at the certificate, diploma, graduate and post-graduate level, including intake capacity, minimum qualification required for admission, fee charged etc.
(iv) AS-V Schedule for educated unemployed and channels of self-employment in rural areas	
10 per cent villages selected from each development black.	Existing avenues of self-employment other than agri- culture, additional opportunities for self-employ- ment that could be created in the light of moder- nisation of agriculture, local produce and other resources and expanding needs for maintenance and other services; educated unemployed; period of unemployment; number registered with employ- ment exchange.
 (v) AS-VII Employers' schedule for private smaller establishments employing 5—9 workers 	
From all the private establishments having 5-9 workers.	Persons employed by occupation seven years ago and currently; number of working proprietor, economic activity, year of establishment, current women employment etc.
 (vi) AS-VIII Schedule for development plans and man- power needs of Government departments 	
From Heads of Departments.	Data regarding manpower content of Fifth Five Year Plan schemes and expansion programme dur- ing next Five years.
(vii) AS-IX Schedule for employment potential of the District	
From Government Departments and other organisations of the area.	Additional employment opportunities which could be generated in the light of economic characteris- tics and availability of natural resources in the area.

(viii) Proforma-A Proforma for collection of information about the degree/level of skill

(iii) AS-III Schedule for institutions imparting professional

Bigger establishments having 100 or more skilled workers with at least 7 in a particular cadre, all emerging establishments who anticipated additional requirements of at least seven in a trade. Various products of the establishment, activity of industry, number of persons employed by categories, selection preference, training activities for workers, additional training needs etc.

6. A mass of statistical data and information which was available from other sources was also studied in the presentation of area reports. Some of the important sources were—(i) data available from day-today operations of employment exchange, (ii) data collected under Employment Market Information Programme of Employment Service, (iii) decennial population census, (iv) district plans, (v) small scale and rural industries, (vi) agricultural conditions, (vii) socio-economic surveys, (viii) reports of employers' associations, (ix) records of local bodies, Government departments, licensing authorities, employers' associations etc.

7. A District Advisory Group on Area Skill Survey was constituted under the Chairmanship of the District Magistrate to review periodically the progress in the collection of schedules and devise ways and means to ensure the fullest cooperation from employers. Other members nominated to serve on the District Advisory Group were drawn from the concerned departments of Labour, Planning, Education, Technical Training, Agriculture, Industries, Local body and Trade Unions.

Recommendations

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- In tensive publicity measures should be undertaken in advance before the officers of the Survey team start contacting establishments for collection of data. This would enable the establishments to understand the various items of the Schedule and in some cases they may be able to keep information ready.
- Big establishments found it difficult to furnish agewise information of their employees.
- Difficulties were experienced in collection of information about expansion programmes for the next two or five years.

Action

This is already being adopted. Wide publicity is given to the programme of Area Skill Surveys by way of issuing high level appeals, press notes and broadcasts on the All India Radio etc.

This item has been deleted.

This was found to be particularly difficult in respect of public sector establishments as future plans in respect of them are stated to be prepared at higher level. Considering this difficulty Area Teams have now collected information from the district plans in case these are available or alternately expansion plans are collected from parent departments of the government. Encouraging success has been achieved now.

9. The concepts, assumptions and analytical techniques adopted are given in the 'Technical Notes' that follows.

TECHNICAL NOTES

The following paragraphs outline the concepts, assumptions and analytical techniques employed on the basis of which findings and Conclusions have been drawn for presentation in this report. It is hoped that as more experience is gained, the methodology and technique will be further refined.

2. **Reference Dates**.—The data on employment i.e. number of regular employees on pay-roll including working proprietors and partners relates to the following reference dates:

Employment seven years ago Current Employment Anticipated Employment as on 31st March, 1967.
 as on 31st March, 1974.
 by 31st March, 1979.

3. Establishments and Employment.—A comprehensive and up-to-date frame of establishments, being an essential pre-requisite, was constructed on the basis of the Employers' Register maintained at Employment Exchanges under the Employment Market Information (EMI) programme and other sources. This was further supplemented with reference to special street surveys carried out by the field staff in the district. A high degree of comprehensiveness in the construction of frame was achieved. This would be apparent by a comparison of the establishments covered under Area Skill Survey vis-a-vis E.M.I. Programme.

		Information Pr 509 386 7782 2314 2670 1509		
		Area Skill Survey	Employment Market Information Progra- mme	
A.	Public Sector	509	386	
В.	Private Sector	7782	2314	
	(i) Bigger Establishments employing 10 or more workers	2670	1509	
	(ii) Smaller Estts. employing 5-9 workers	5112	805	
	Total (A & B)	8291	2,700	

4. The employment revealed under the E.M.I. Programme (which does not cover private etablishments employing less than ten workers) was about 1.96 lakhs in 1967 and 2.12 lakhs in 1974, thereby showing an average growth rate of 1.2 percent per Year. As against this comparable employment figures thrown up by the Area Skill Survey (excluding employment in smaller establishments i.e. employir g 5-9 workers are 1.94 lakhs and 2.42 lakhs in 1967 and 1974 respectively, giving a growth rate of 3.6 per cent per year. The employment figures under Area Skill Survey during 1967 are less by 2 thousand in comparison to E.M.I. data. This is mainly because of shifting or closure of some establishments after March, 1967 which for obvious reasons could not be accounted for in the frame of establishments constructed in 1974 under Area Skill Survey. However, Area Skill Survey figures for the Year 1974 are more than the E.M.I. figures due to the identification of a larger number of establishments, that have emerged between 1967 and 1974. Another possible reason for the wide variations between the E.M.I. and Area Skill Survey is the possible errors involved in the estimation of employment in respect of defaulting establishments under the E.M.I. programme. Besides 'personal interview method' of collection of data followed under the Area Skill Survey has also yielded better results. It may be recalled that the Dantwala Committee also recommended adoption of personal interview method for the collection of data under E.M.I. programme. For the same reason the meeting of the Working Group on National Employment Service held in 1973 favoured raising of survey teams for conduct of street surveys on a continuing basis to ensure comprehensive coverage of employers.

Response

5. The personal interview method coupled with an intensive programme of public relations undertaken from the very beginning, as well as the efforts of District Advisory Group resulted in achieving hundred percent response.

Employment Growth

6. Future employment growth has been worked out by taking into account under-mentioned components:

A. Forecast Furnished by Existing Employers

(i) The employers were requested to estimate future employment in their respective establishments on the basis of their expansion plans and on the assumption that existing shortages

and difficulties relating to raw-materials, power, finance, foreign exchange etc., which may be hindering production or expansion or fuller utilisation of installed capacity would be overcome in the coming years.

(ii) Experience has shown that Public sector establishments at the district level were, by and large, not in a position to estimate their future employment as expansion and development plans in their case were still in the finalisation stage at higher level. Efforts were, therefore, made to establish contacts with the Heads of the Departments and the Ministries concerned, to collect data through a separately designed questionnaire (AS-VIII) regarding employment likely to be generated both as a result of implementation of minimum social and welfare programmes of compulsory education, adult literacy, family planning, health sanitation, communication etc., and due to expansion plans. This has resulted in arriving at fairly accurate manpower estimates in respect of departments such as Education, Irrigation, Animal Husbandry, Medical & Public Health Services, Industry and Labour etc. (Refer Chapter IV).

B. Employment Likely to be generated by emerging establishments

All possible efforts have been made to identify the establishments which are currently known to be in blue-print stage or in different stages of completion but likely to emerge in the next 5 years. This led to the identification of as many as 53 new establishments. A comprehensive listing of all new establishments is not possible because such establishments/projects which may be planned subsequent to the date of enquiry cannot be brought within the ambit of the survey. Some idea of inadequacy in listing emerging establishments over a period of time. During the period of 1969-74 as many as 952 establishments came into existence while only 53 emerging establishments could be identified for 1974-79.

C. Employment projected for smaller private establishments

From a study of the data for the past 5 years (Table below) it is noticed that a sizeable number of smaller private establishments (employing 5–9 workers) such as trading shops, eating places, minor repairing & servicing units have been coming up in the normal course from year to year. They have not only come up on a uniform economic pattern to meet the needs of population growth, urbanisation and expanding economy, even the number that has emerged from year to year in each category is almost of the same order. As no formal planning or advance action (e.g. land acquisition, licence, power connection, finance etc.) is required in raising such establishments, it is hardly possible to construct comprehensive frame of such establishments for the purpose of estimating future employment. In order to bridge the gap and to build up a more realistic estimate, manpower projections have been worked out on the basis of past trends for which ample justification exists.

	Nun	nber of pri	ivate esta	blishment	ts (5—9 v	workers) a	nd empl	oyment in	them wh	ni c h came	up duri	ng a year
Economic Activities —	1969]	1970		1971		1972	1973		Total	
	А	В	A	В	Α	В	A	В	A	В	A	B
Agriculture Live- Stock	4	26	4	25	2	10	4	22	3	17	17	100
Mfg. including rep. & servicing	221	1341	265	1557	156	950	231	1383	434	2570	1307	7801
Trade & Com- merce	120	706	151	89 0	90	525	124	742	170	987	655	3850 -
Transport, Stor- age & Commu-	•	50			_							
nication Educational Ser-	9	58	16	93	5	28	6	32	20	129	56	340
vices	10	66	12	84	5	34	5	35	13	80	45	299
Eating places	29	169	44	248	21	119	30	169	71	410	195	1115
Laundry Ser-			'							•		
vices	9	56	6	33	5	28	5	33	6	33	31	183
Other Services	7	38	13	74	4	27	7	38	9	53	41	239
Total	409	2460	511	3004	288	1721	412	2454	726	4279	2347	13927

A-Number of Establishments.

B-Employment as on 31st March, 1974.

(xii)

- D. Employment projected for segments marked by uniform GROWTH PATTERN in private sector (establishments employing 10 and above workers).
 - Detailed analysis of employment pattern by economic activities in private sector establishments employing 10 or more workers during the past 5 years has been undertaken to identify such segments which revealed a fairly uniform employment growth year after year and thereby afforded full justification for projection on the basis of past trend. The segments thus identified are given below. Manpower projection on the basis of past trend in bigger private sector establishments (10 or more workers) have been worked out only in respect of them.

	1969	Ð	1970		1971		1972	2	1973	3	Total	al
Industry	A	В	A	В	А	В	А	В	A	B	Α	В
1	2	3	4	5	6	7	8	9	10	11	12	13
Food Stuffs	10	142	9	105	17	296	11	173	. 13	170	60	886
Textiles	11	178	15	190	16	269	15	197	16	220	73	1054
Wood & Wood- en Products	7	74	5	43	6	79	5	53	5	53	28	302
Leather and Leather Products	5	69	5	124	8	328	6	300	1	11	25	832
Printing and Publishing	1	10	4	55	10	149	3	56			18	270
Rubber and Rubber Products	1	17	1	33			5	67	1	7	8	124
Basic Chemicals and Chemical Products	12	213	13	195	16	284	14	217	8	92	63	1004
Bricks & Tiles								_	5	52 64	15	184
Iron & Steel, Alloys, Steel Products and Iron and Steel furniture	6 10	67 261	1	11 211	2	28 250	1 16	14 265	6	114	62	1101
Sundry Hard-		·		_								
wares Motor vehicles & engine parts and their ser- vicing.	9	150	23 4	341 39	10 2	190 32	10 3	235 152	11 3	300 55	63 13	1216 289
Machinery & electrical equip- ment	4	113	5	69	8	267	11	135	10	202	38	786
Others	6	118	9	129	5	73	5	220	5	50	30	590
Banking				-	1	35					4	96
Trade & Com-	1	28	2	33	1	55	••	••	••	••	т	90
merce	13	158	18	236	14	160	10	125	9	112	64	791
Transporting by motor vehicles	9	173	11	136	4	80	8	101	6	72	38	562
Operation of Storage		••	•••	••	1	20	1	13	1	10	3	43
Educational ser-	23	364	22	336	12	167	12	135	10	147	79	1149
Recreation Ser- vices			1	13	2	40	1	13	3	4 1	7	107
Hotels & Res- taurants	3	45	9	171	3	41	4	47	5	61	24	365
	132	2191	172	2470	152	2791	141	2518	118	1781	715	11751

New Private Establishment and Employment in them which came up during a year

A-Stands for establishments

B--Stands for employment as on 31-3-1974

Self-employment

- 7. Data indicative of self-employment is discussed below :---
 - A. Rural Areas
 - (i) Data on self-employment in the non-agricultural sector in rural areas was collected from a sample of 10 percent of villages in each community development block. Of the total inhabitated villages in the district, 198 villages representing 14.0 percent of the rural population were studied. In order to have a more precise estimate of channels of existing self-employment in non-agricultural activities, the necessary information was collected by conducting comprehensive door to door survey of the sampled villages to identify establishments in the size class 1-4 workers (including both wage-paid employment and self-employment). The data was bloated by using the multiplying factor of 7.1 which is reciprocal of the proportion of the population of the sampled villages to the total rural population of the district.
 - (ii) Village officials and elders were also requested to estimate additional opportunities for selfemployment that could be created in the light of modernisation of agriculture, availability of raw-materials and expanding needs for maintenance and other services. It is believed that these estimates would be fairly indicative of the self-employment potential in rural areas.
 - B. Urban Areas
 - A comprehensive coverage of self-employment and other mixed employment in urban areas was outside the scope of the survey. However, a limited assessment in respect of those segments of economy for which information was readily available from existing records of Government departments, local bodies employers' and trade associations, licensing authorities etc., was made. Although no forecasts have been attempted on the basis of this data, its utility lies in the fact that it sheds interesting light on the trend of self-employment and other mixed employment in urban economy.
 - C. Working proprietors and partners
 - Information in respect of these persons has been obtained separately on Employers' Schedule. It is believed that to a considerable extent, the small establishments are the handi-work of a single individual or a group of individuals who besides supervising the establishment or enterprise also engage paid workers. Accordingly, an analysis of working proprietors and partners by economic activity has, in the context of economy and needs of the area been taken to be indicative of avenues for self-employment.

Future Manpower needs

8. The following components were taken into account to calculate future manpower needs of the area:-

- (i) Employment growth;
- (ii) Replacement needs due to attrition in the existing work force in conformity with the accepted norm have been calculated at the rate of 2 percent per year.
- (iii) Vacancies remaining unfilled in establishments on reference date (i.e. 31-3-1974).

Unemployment

9. The Live Register figures of Regional Employment Exchanges Kanpur, Special Employment Exchanges for Physically Handicapped, Kanpur, University Employment Bureau, Kanpur and Professional and Executive Office, Lucknow, have been used as an indicater of the current level of unemployment in the district.

10. Because of seasonal variation and under-employment prevailing particularly among unskilled agricultural workers and other factors, the number of educated unemployed (Matriculates and above) and skilled rural artisans possessing a recognised certificate etc. has only been obtained during the course of door to door survey of sampled villages.

Degree/Level of skill

11. Degree/Level of skill for each occupation was ascertained from all those establishments employing 100 or more workers or 7 or more workers in an occupation with a view to restructuring the existing training programme to suit the local needs.

Tabulation

12. All data has been tabulated manually.

(xv)

CHAPTER I

BACKGROUND

1.1 Kanpur district in Uttar Pradesh, is situated in the fertile central plain of the upper Ganga Valley flanked by the river Jamuna in the South and the Ganga in the north-east, and is of an irregular shape. To the eastern side of the south-east of Kanpur district the boundries of seven districts in order are Fatehpur, Unnao, Hardoi, Farrukhabad, Etawah, Jalaun and Hamirpur. Maximum length of the district from East to West is about 104 km. and from North to South is about 112 km.

1.2 The number of villages in the district is 2063 (1898 inhabited and 165 uninhabited) which comprises the rural area. Administratively the district comprises of six tehsils viz. Kanpur, Ghatampur, Bhoginipur, Akbarpur, Derapur & Bilhaur. According to 1971 census there are two towns viz. Kanpur and Pukhrayan classified as urban. The villages are grouped into 20 development blocks of which 3 each are in the tehsils of Kanpur, Ghatampur, Bhoginipur, Akbarpur and 4 each in the tehsils of Derapur and Bilhaur. These development blocks have been also sub-grouped into three main regions comprising 7, 5 and 8 blocks respectively. Out of the 1898 inhabited villages there are 4 towns which have not been classified as urban. 4 Non-urban towns and 336 villages have been electrified upto 1971-72.

1.3 Land utilisation.—Of the total area of 6203 sq. km. of the district (rural 5909 sq. kms. and urban 294 sq. kms) 4322 sq. km. or 67.7 per cent is under agriculture and only 1.9 per cent under forest. At some places jungles of dhak are found which are vanishing slowly and in their place cultivable land is coming up. The following table shows the land utilisation pattern of Kanpur district during 1968-1969 as available with the Surveyor General of India.

TABLE 1

Land utilisation

Category	Area in sq km.
Forests	12
Land put to non-agriculture uses	1,080
Permanent pastures land	50
Land under miscellaneous three Crops and groves not included in the area sown	150
Cultivable waste land	230
Current fallow land	150
Fallow lands other than current fallow	110
Net area sown	4320
Area sown more than once	880
Gross cropped area	5,200

1.4 Considering the irrigation facilities of the region it is found that the south-west region is lagging behind over the other two regions namely the north-west and the eastern. The following table shows the area sown and the area irrigated:

TABLE	2
-------	---

Name of the region	Area sq. km.	Total area sown sq. km.	Percentage of area sown	Total area irrigated sq. km.	Percentage of area irri- gated to total area sown
1	2	3	4	5	6
South-west region	2481	1870	75.5	550	29.2
North-west region	1555	990	63.8	410	41.0
Eastern region	2167	1460	67.1	5 9 0	40.0
Total	6203	4320	67.7	1550	35.80

1.5 **Agriculture**.—Like other districts of the State Kanpur is also predominently agriculture in character. Kanpur district is mainly depending on rains and irrigation though other sources like canals, wells, ponds, lakes and tube-wells play only a limited role. By the end of 1971-72 about 36% of the total cultivable land in the district had got the irrigation facilities. The Ganga flows along the north eastern boundaries of the district for its entire length skirting tehsils of Bilhaur and Kanpur. It has a wide and sandy bed in which the stream rolls from side to side, changing its channel almost every year. The Jamuna river first touches this district in the extreme west of Bhoginipur tehsil and maintains a south easterly course as far as the southern extremity of the tehsil of Ghatampur in the interval forming the boundary between Kanpur and the district of Jalauna and Hamirpur. The other small rivers of the district with their length given in brackets are : (a) Ishan (16 km), Pandu river (103 km), (c) Sangur (53 km), (d) North Noan (46 km), (e) South Noan (40 km), and (f) Rind river (132 km).

Ishan and Noan rivers are the tributaries of the Ganga and Rind is the chief tributary of the Jamuna. The soil, like other parts of 'DOAB' is DOMAT (Alluvial).

1.6 The average rain fall in the district during the last five years is 874 mms. The food crops grown in the district are paddy, jawar, bajra, maize, wheat, barley, gram, arhar, peas, sugarcane and oil seeds.

1.7 Minerals.—Kanpur district is not known for minerals. At some places however, Kankar is available which is used in the construction of roads.

1.8 **Communication**.—Kanpur district is well connected with other parts of the country by rail, as well as by road. It lies on National Highway No. 25 connecting Lucknow with Jhansi, Kanpur is connected via Lucknow with districts lying on North, West and Eastern parts of Uttar Pradesh such as Moradabad, Bareily, Sitapur, Shahjehanpur, Faizabad, Basti and Gorakhpur. It also lies on the G.T. Road running from Calcutta to Amritsar. This road connects Kanpur with Varanasi, Allahabad, Fatehpur, Kannauj, Etawah, Aligarh, Bulandsahr, Meerut and districts further North. The total length of the roads in the district is 849 km. It is served by the Northern, Central and North Eastern Railways—the first two being broad gauge and the last meter gauge. The main line of the Northern Railways from Delhi to Mughulsarai and onward to Calcutta (on Eastern Railways) passes through Kanpur. A branch line of the same system connects it with Lucknow and Amritsar Mughulsarai main line. Kanpur is also connected with Jhansi and Banda by branch lines of the Central Railways. A branch of the North Eastern Railways called the Oudh-Tirhut Railways, before the zonal grouping, connects it with Lucknow on one side and Kasganj and Agra Fort on the other. Kanpur also finds a place on the Air map of India and is connected to important towns of India.

1.9 **Industries**.—Kanpur is described as the industrial metropolis of the state. Many of the biggest factories of the State are located at Kanpur. The Industrial development of Kanpur is said to owe more to historic factors than to other aspects like availability of Industrial raw-material, coal or locational advantage from the stand point of low transport cost as Kanpur is not at all well-placed in these regards. The industrial development started with the setting up of a few industries by the East India Company at Kanpur City. In course of time Kanpur has developed a conglomeration of industries both in the public and the private sectors. Among the large scale factories there are 7 agro-based industries, 12 textile based industries, 3 chemical-based industries, 12 engineering based industries and 4 miscellaneous industries. The textiles based units occupy a pivotal position in large scale factories, in view of their capital investment, annual value or production and employment. They include spinning, weaving and printing of textiles jute mills and woollen mills. Agro based industries include, flour mills, edible oils and hydrogenated oils The chemical based industries include heavy chemicals and gas manufacturing and distribution. The engineering based industries include rolling, tube making and wire drawing, casting textile machinery and accessory, transport equipment and electric lamps. The small scale industries have agro-based, textile-based, forest-based, live stock-based, chemical-based, engineering-based and miscellaneous units. The government is also an important participant in the industrial development of Kanpur. The important undertakings set up by the government are Ordnance factories, Hindustan Aeronautics Ltd., Harness & Saddlery factory, Thermal power project, Modern Bakery. There are three government industrial estates and one co-operative industrial estate. Kanpur also has village industries which include gur and khandsari making, matches, processing of important cereals, carpentry, blacksmithy, leather, pottery, beekeeping, gobar gas, fruit preservation and canning, aluminium utencils, brick-kilns and hand-made paper. Small scale industries have developed export market. Agro-based industries provide more of export contribution with textile-based industries coming next.

1.10 **Population**.—According to 1971 Census the district had a population of 29.96 lakhs (Rural 17.14 lakhs and Urban 12.82 lakhs) which is 25.8 per cent higher than the corresponding figures of 23.81 lakhs in 1961 (Rural 14.05 lakhs and Urban 9.76 lakhs). While the urban population increased by 31.3 per cent

during the decade 1961-1971 the rural population increased by 22 per cent during the same period. The relevant data is given in the following table:---

TABLE 3

Population Growth

(Figures in brackets indicate the percentage of total)

	Populatio 1961	Percentage increase (1961-71)	
Rural	14.05 (59.0)	17.14 (57.2)	22.0
Urbam	9.76 (41.0)	12.82 (42.8)	31.3
Total	23.81 (100.0)	29.96 (100.0)	25.8

1.11 Although the urban population growth rate is about one and a half times of the rural population growth rate, the rural population continues to be predeminent in the district.

1.12 The density of population of Kanpur district which was 383 persons per sq km during 1961 increased to 489 persons per sq km in 1971.

1.13 The following table shows the break-up of population by sex in 1961 and 1971 separately in the rural and urban areas:

TABLE 4

Rural and urban population by sex

(Figures in brackets indicate the percentage of female population to total)

		1961			1971		
	Persons	Male	Female	Persons	Male	Female	
Rural	1405062	753233	651829 (46.4)	1713901	925921	787980 (46.0)	
Urban	976291	561440	414851 (42.5)	1282331	7275 73	554758 (43.3)	
Total	2381353	1314673	1066680 (44.8)	2996232	1653494	134273 8 (44.8)	

1.14 It would be seen from the above table that the proportion of females to total remain the same (44.8) in 1971 as compared to 1961. In absolute number there were 3.11 lakhs more males than females in 1971 as compared to the corresponding figures of 2.48 lakhs in 1961. It would further be seen that the percentage of females in urban areas has increased while in the rural areas it has come down.

1.15 Age-wise distribution.—The following table shows age-wise distribution of 1971 population in Kanpur district.

TABLE 5

Age-wise distribution of population

(Figures in brackets indicate percentage to total)

Age-group	Rural	Urban	Total	Male	Female
0-14	747621	497,322	12,44,943	660,278	584,665
	(43.6)	(38.8)	(41.6)	(39.9)	(43.5)
15—59	863,512	732 197	15,95,709	902,959	692,750
	(50.4)	(57.1)	(53.2)	(54.6)	(51.6)
60 & above	102,768	52,812	155,580 K	90,25 7	65, 323
	(6.0)	(4.1)	(5.2)	(5.5)	(4.9)
Total	17,13,901	12,82,331	29,96,232	16,53,494	13 ,42,738
	(100.0)	(100 · 0)	(100-0)	(100·0)	(100-0)

1.16 The percentage of population in the age-groups 0-14 years and 60 and above is comparatively more in rural areas as compared to the corresponding proportion in urban areas. The position is however, reverse for the other age-group viz. 15-59 years. As expected the percentage of population in the age-group 15-59 is more for males than females. The following table gives the distribution of total population in various age-groups for rural, urban males and females.

Age-group	Percentage of total population						
	Rural	Urban	Total	Male	Female		
014	60.1	39.9	100.0	53.0	47.0		
1559	54.1	45.9	100.0	56.6	43.6		
60 & above	66.1	33.9	100.0	58.6	42.0		
Total	57.2	42.8	100.0	55.2	44.8		

 TABLE 6

 Percentage distribution of rural, urban population according to various age-groups

1.17 Literacy.—As per 1971 population census the percentage of literacy was 36.6 which is higher by 5.2% than 1961 census figures. This percentage is more than one and a half times the corresponding figures for the state as a whole (21.6 per cent). 45.8 per cent of the total male population are literate while among females only 25.4 per cent are literates. 57.2 per cent of urban population are literates as compared to 42.8 per cent in the rural areas. The relevant data are contained in the following table:—

TABLE 7

Literacy

	Male	Female	Total
Rural	36.2	14.1	42.8
Urban	58.0	41.3	57.2
Total	45.8	25.4	36.6

1.18 Workers and non-workers.—In the 1971 Census the population has been broadly divided into two groups namely (i) Workers and (ii) Non-workers on the basis of the main activity in which a person was found to be engaged. The worker is a person whose main activity is participation in any economically productive work, by his physical or mental activity. Work involves not only actual work but effective supervision and direction of work. The definition of a worker during 1971 census was different than that adopted during 1961 census. During 1961 all those seasonal workers who had some regular work of more than an hour a day throughout the greater part of the season were treated as workers. The 1971 census. however, stipulates that a person primarily engaged in household duties or those who were students and helped in family economic activity but not on a full-time scale should be treated as non-workers in respect of their main activity. The figures of 1961 and 1971 are therefore, not comparable in this regard.

1.19 Workers.—1971 decennial population census has enumerated 8.80 lakhs persons as workers. The participation rate defined as the proportion of workers to population was 29.4 per cent. The corresponding rates for rural and urban were 29.2 and 29.6 per cent respectively. The following table contains the relevant data.

TABLE 8

Participation	rate	1971	
---------------	------	------	--

M	Male	Female	Total
Rural 51	1.4	3.1	29.2
Urban 50	0.3	2.4	29.6
Total 50	0.9	2.8	29.4
Total 50	0.9		2.8

1.20 It may be of interest to note that the partipation rate is higher in the urban areas than the rural areas. The participation rate both for men and women separately in rural areas is however, slightly more than the corresponding rates for the urban areas.

1.21 The following table shows the distribution of workers by broad industrial categories adopted under the 1971 tabulation census.

TABLE 9

Workers by industrial categories

(Figures	in	brackets	indicate	percentage	to	total)	

	-					
Economic activity		Workers				
Economic activity	Rural	Urbản	Total			
1	2	3	4			
Cultivators	325686	7867	333 55			
	(65.0)	(2.1)	(37.9			
Agricultural labourers	109689	5308	11499			
	(21.9)	(1.4)	(1 3 .0			
Live stock, Forestry, hunting, plantation and allied activities	3 216	1932	504			
	(0.6)	(0.5)	(0.6			
Mining and Quarrying	54	168	22			
	()	()	(-			
Manufacturing:						
(i) Household industry	1 *665	15 9 57	2762			
	(2 -3)	(4.2)	(3.1			
(ii) Other than household	10227	114063	12 42 9			
	(2.3)	(30.1)	(14.1			
Construction	2289	4577	686			
	(0.5)	(1.2)	(0.8			
Trade & commerce	10 9 42	7945 2	9039			
	(2.2)	(20.9)	(10.3			
Transport storage and communication	2783	32561	3534			
	(0.6)	(8.6)	(4.0			
Other services	24368	1117646	14183			
	(4.9)	(31.0)	(16.1			
Total	500919	379249	88016			
	(100.0)	(100.0)	(100.0			

1.22 As might be expected there is a sharp contrast in the industrial distribution of workers between rural and urban areas. Since Kanpur is predominantly an agricultural area 2/3rd of the workers in rural areas in 1971 were cultivators while another 1/5th of the total workers were enaged as agricultural labourers. Only 13.1 per cent of the total rural workers were in activities such as manufacturing, trade and commerce, construction, etc. On the other hand only a negligible proportion of the total workers in urban areas (3.5 per cent) were active as cultivators and agricultural labourers. Manufacturing activity is less important in rural areas. Rural workers were engaged approximately in equally household and other than household manufacturing industries. The highest proportion of workers were engaged in manufacturing in case of urban areas. Nearly 1/3rd of the total urban workers were engaged in non-household manufacturing industries mostly factories which are concentrated in the urban areas. Trade & Commerce, transport, storage and communication and other services accounted for more than 60 per cent of the total workers in the urban areas due to concentration of administrative offices, medical and educational institutions and public utility services.

4--1 I)GET/ND/77

1.23 Occupational pattern of workers.—*The occupational pattern of workers according to 1961 census is given in the following table:---

Occupational Group	Percentage	distribution	of workers
	Rural	Urban	Total
Professional, technical and related workers	4.4	5.2	5.0
Administrative, executive & managerial workers	1.4	9.5	7.6
Clerical and related workers	2.2	7.6	6.3
Sales workers	11.0	15.9	14.9
Farmers, fisherman, hunters, loggers & related workers	10.5	1.2	3.4
Workers in transport and communication occupations	3.7	6.0	5.5
Craftsmen, Production Process workers and labourers not elsewhere classified	5 3.7	46.1	47.9
Service sport and recreation workers	10.8	6.8	7.6
Workers not classified by occupation	2.3	1.7	1.8
 Total	100.0	100.0	100.0

TABLE 10	•
Occupational distribution of workers according to 1961 census-non-agricultur	al sector

*Data for 1971 are not available

Others

Total

1.24 Non-workers. All those who were not actively engaged in any economically productive work were basically classified as non-workers during 1971 census operations. The total number of non-workers in Kanpur district was 21.16 lakhs of which 8.12 lakhs were males and 13.04 lakhs were females. The number of non-workers in areas classified as rural in 1971 was 12.13 lakhs as compared to 9.03 lakhs in the urban areas. The following table gives the rural and urban composition of non-workers during 1971.

	J	CABLE 11		
Non-workers	in	rural and	urban	areas

	No. of Percentage non-workers to total
Rural	1212982 57.3
Urban	903082 42.7
Total	2116064 100.0

1 25 The number of non-workers according to seven main categories into which they have been broadly classified is given in the following table. A person irrespective of age and whether educated or not, if he reports that he is not engaged in any other activity but is seeking work will come under the last category namely others.

TABLE 12 Non-workers 1971 (Figures in brackets indicate percentage to total) No. of non-workers Category Total Male Female 1 2 3 4 298531 151262 449793 Full-time students (21.3)(36.8)(11.6)2212 676388 678600 Household duties (0.3)(32.1)(51.9)939561 476024 463537 Dependents and infants (58.6) (35.5)(44.4)10,545 9384 1161 Retired, rentires and persons of independent needs (1.2)(0.1)(0.5)10406 12508 2102 Beggers and Vegarants etc. (0.3)(0.8)(0.6)

521

(—)

22791

(2.8)

811565

(100.0)

240

(---)

1,505

(Ó.1)

1304499

(100.0)

761

(—) 24,296

(1.1)

2116064

(100.0)

Inmates of penal, mental and charitable institutions

1.26 •Establishments and Employment.—Under the 1971 census operation, an attempt has also been made to identify all the establishments and employment in them. According to the 1971 census, an establishment is a place where goods are produced or manufactured not solely for domestic consumption or where servicing and/or repairing is done such as factory, workshop or household industry or servicing and/or repair workshop or a place where retail or wholesale business is carried on or commercial services are rendered or an office, public or private or a place of entertainment or where educational, religious social or entertainment services are rendered. It is necessary that in all these places one or more persons should be actually working. Thus an establishment will cover manufacturing, trade and other establishments where people work. The statistics relating to the distribution of establishments by three broad types, viz., (i) Manufacturing, processing or servicing establishments, (ii) Trade or business, establishments and (iii) Other establishments classified according to Government or quasi-governments private, co-operatives is given at Appendix II Part A. The following table gives the break-up of rural and urban establishments into government/quasi-government, private and cooperatives:

TABLE	1	3
-------	---	---

	Rural	Urban	Total
(a) Government/quasi government	2,354	1,879	4,233
(b) Private	20,485	38,821	59,306
(c) Co-operatives	110	139	249
Total	22,949	40,839	63,788

Establishments have also been classified according to various sizes of employment. Appendix-II Part B gives size-wise number of establishments and employment in them separately for manufacturing, trade & commerce and others, while the following table contains the summary:

Size of establishment	Units	Number of persons employed
1. Less than 5 workers	57,278	95,602
2. 5-9 workers	4,094	24,852
3. 10 and above workers	2,202	1,46,598
4. Persons unspecified	214	••

CHAPTER II

EMPLOYMENT 1974

2.1 The total number of establishments identified in Kanpur district as on 31-3-1974 (i.e., date of enquiry) both in public and private sector, was 8291 which constituted the frame of establishments for the purpose of this enquiry. This was constructed by bringing up-to-date Employers' Register maintained in the Employment Exchange under the E.M.I. programme, on the basis of the information available from other sources and by conducting comprehensive street surveys of all cities, towns and villages in the district. The frame of establishments by size class and response achieved is given in the following table

TABLE 15

Number of establishments

· ·	Type of establishments and size		Number	Percentage response
. 1	. Public sector		509	100
2	Private Sector:			
	(i) Bigger establishment employing 10 or more workers		2,670	100
i . (ii) Smaller establishments with 5 to 9 workers		5,112	100
		Total	8291	100

2.2 Out of the total number of 8,291 establishments existing as on 31-3-1974 accounting for total employment of 2,73, 450, as many as 4,240 establishments were those which came up during the last seven years period from 1967-1974, while the remaining 4,051 came in existence in 1966 or earlier. The relevant data is contained in the Appendix IV.

2.3 Among the ex-establishments that came up during the period 1967-74 as many as 193 were in public sector contributing employment to the extent of 23,734 and 4,047 establishment were in private sector, accounting for employment of 44,160.

2.4 The total employment in all establishments that were in existence as on 31-3-74 was 2,73,450 as against an employment of 2,07,084 in them in March, 1967. Of the total employment in 1974 public sector and private sector accounted for 1,28,472 (47.0%) and 1,44,978 (53.0%), respectively.

2.5 Employment by Industry :- The following table gives the total employment in 1974 by broad industrial division:

Industrial Division	Employment in 1974	Percentage to total
Agriculture & Livestock	1,446	0.5
Manufacturing	1,32,533	48.5
Construction	5,503	2.0
Electricity, Gas, Water & Sanitary Service	6,940	2.5
Trade & Commerce	25,852	9.5
Transport, Storage & Communication	16,976	6.2
Services	84,200	30.8
Total	2,73,450	100.0

TABLE 16

(Refer:-Appendix-VII-Employment Growth by Economic Activity.)

2.6 • Of the total employment of 2.73 lakhs in 1974 nearly half (48.5%) was in manufacturing followed by services (30.8%), trade & Commerce (9.5%), Transport, Storage & Communication (6.2%), Electricity, gas, water & Sanitary services (2.5%) and construction (2.0%). Agriculture, Livestock constituted only small proportion of the total employment, which is due to the fact that the employment in this sector is not covered under the survey. The employment of 1,446 in this sector in 1974 relates mostly to government establishments which are dealing with the development of agriculture & Livestock in the area.

2.7 **Industries of area.** Among manufacturing industries, cotton spinning and weaving in mills (42,721), servicing and repairing of motor vehicles (5,187); Jute spinning & weaving (4,469)wool spinning & weaving (4,443); shoes & other leather foot-wears (4,016); smelting, refining & re-rolling of iron & steel (3,781); sundry hardwares (3,776); turpentine, synthetic, resin & plastic product (3,730); aeroplanes & aero-engines (3,524); textile garments (3,410); curring, tanning & finishing of hides (2,878); carpets & daries (2,526); printing & publishing (2,066); and rice, atta & flour (1,788) constituted the bulk of employment.

2.8 Services—Within the services sector, employment in educational services—non-technical (23,794); administrative services in Central Government (21,309); administrative services in State Government (13,756); public health & medical services (8,358); educational services—technical (4,860); administrative services in Quasi-Government & local bodies (4,150) and hotels & restaurants (3,414) accounted for the bulk of employment.

2.9 **Employment by occupations**—Occupational break-up of employees at broad divisional level is given in the table:

Occupational Division	Employment in 1974	Percentage to total
I. Professional, technical & related workers	32,328	11.8
(i) Scientists, engineers & technologists	6,380	2.3
(ii) Doctors, medical & health technicians	3,058	1.1
(iii) Teachers	19,385	7.1
(iv) Accountants, social scientists & other professionals	3,505	1.3
II. Administrative, executive & managerial workers	16,830	6.2
III. Clerical & related workers (excluding unskilled office workers)	37,398	13.7
IV. Sales workers	6,002	2.2
V. Service workers (excluding watchmen, chowkidars, cleaners, sweepers & watermen)	12,609	4.6
VI. Farmers, loggers & related workers (excluding agricultural & plantation labourers)	1,653	0.6
VII. Production & related workers and transport equipment operators (excluding labourers)	120,003	43.9
(i) Production & related workers	115988	42.4
(ii) Transport equipment operators	4015	1.5
VIII. Unskilled workers	46,627	17.0
Total	2,73,450	103.0

 TABLE 17

 Employment by Occupational Division

(Refer: Appendix VIII-Employment Growth by Occupation.)

2.10 Due to preponderence of manufacturing industries in the area about 56% of the total employed labour force in 1974 were found in two occupational categories, viz.,

(i) production & related workers and transport equipment operators (1,20,003), and

(ii) professional & technical workers (32,328).

Clerical & related workers (37,398) were also significant followed by administrative, executive & managerial workers (16,830); service workers (12,609); sales workers (6,002); and farmers & related workers (1,653). Unskilled workers (46,627) formed 17.0 per cent of the total.

2.11 Women employment.—Of the total of 2,73,450 employees in Kanpur district in March 1974 a many as 13,146 were women employees representing 4.8 per cent of the total employment. The following table gives the percentage of women employment to the total in the rural and urban areas separately for public and private sectors.

TABLE	18
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Employment	in	Rural	and	Urban	areas	
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Rural			Urban			Total			
Sector	Women	Total	Percent- age of women to total	Women	Total	Percent- age of women to total	Women	Total	Percent- age of women to total
Public	18	915	0.2	6,886	1,27,557	5.4	6,904	1,28,472	5.4
Private	65	4,243	1.5	6177	1,40,735	4.4	6,242	1,44,978	4.3
Total	83	5158	1.6	13,063	2,68,292	4.9	13,146	2,73,450	4.8

2.12 The more important features that emerge from the above table are:-

- (i) Almost all the women employees 99.4% were working in urban areas and only a small proportion (0.6%) were in rural areas.
- (ii) The percentage of women employees to total in establishments located in urban areas, both in the public and private sectors was much higher than the corresponding proportions for rural areas. This was also true for public and private sector taken together.
- (iii) In the public sector women constituted 5.4% of the total employment as against 4.3% in the private sector. In absolute number also the women employees were more in the public sector.

2.13 The following table shows proportion of women employees to total employees in March 1974 by broad industrial divisions:

TABLE 19

Women employed by industrial divisions

Industrial Division	Women employees	Total employ- ment	Percentag of women to total in each division
Agricultural and Live-stock	3	1,446	0.20
Manufacturing	1991	1,32,533	1.50
Construction	7	5503	0.13
Electricity, gas, water & sanitary services	38	6 940	0.55
Trade & Commerce	212	2585 2	0.82
Transport, storage & communication	349	16976	2.05
Services	10,546	84200	12.52
Total	13146	273450	4.80

2.14 It would be seen that bulk of the women employees were engaged in services (10,546) followed by manufacturing (1991); transport, storage & communication (349) and trade & commerce (212). Further

details of women employees in the two major industries divisions (voiz. services and manufacturing) where bulk of women were employed are given in the following table:

Description of Industry	No. of women employees as on 31-3-1974
Services	10546
Administrative services in Govt.	485
Education (Technical)	210
Education (Non-Technical)	7174
Public Health and Medical Services	2631
Community	25
Others	21
Manufacturing	1991
Bidi, Jarda & Tobaco products	23
Cotton, spinning & weaving in mills	21
Cotton weaving in powerlooms	73
Cotton weaving in handlooms	391
Cotton cordage, rope & belts	29
Jute spinning & weaving and other jute products	23
Wood spinning and weaving	29
Carpets and daries	919
Fertilizer	22
Medicines, pharmaceuticals & cosmetics	49
Electronic equipments such as radios, microphones & tape recorders	99
Aeroplanes & aero-engines	21
Others	292

TABLE 20 Women employment in manufacturing & services

2.15 The table below indicates proportion of women to total employees in March, 1974 by broad occupational division:

TABLE 21

Women employment by occupational division

(Figures in brackets indicate percentage to total) **Occupational Division** Women Total Percentage employees employment of women as on 31-3-74 as on 31-3-74 employees to total in each occupational division I. Professional, technical and related workers 7200 54.8 26 32,328 22.3 6,380 (i) Scientists, engineers & technologists (0.2) 967 3,058 (ii) Doctors and medical & health technician (iii) Teachers (7.4) 19,385 223 6072 (46.2) 135 (iv) Accountant, Social scientists & other professionals 3,505 (1.0) п. Administrative, executive & managerial workers 16,830 1 0 160 (1.2)III. 37,398 2.0 Clerical & related workers (excluding unskilled office workers) 741 (5.6) 11 0.2 ĩν 6,002 Sales workers 7.8 v. Service workers (excluding watchmen, chowkidars, cleaners, sweepers & 978 12,609 (7.4) watermen) VI. Farmers, Loggers and related workers (and excluding agricultural & plantation 1,653 1 labourers) (--) 1749 (13.3) 1.5 VII. Production & related workers, and transport equipment operators (excluding 1,20,003 labourers' (i) Production & related workers 1749 1,15,988 (ii) Transport equipment operators 4015 • • VIII. Unskilled workers 2306 46,627 4.9 (17.6)Total 4.8 13146 2,73,450 (Refer: Appendix VI---Women Employees by Occupations in 1974 and Appendix VIII--Employment growth by occupations.)

2.16 Women represented 4.8% of the total number of employees as on March 1974. Their proportion to total in each division varied from 0.2% for sales workers to 22.3% for professional and technical workers. The percentage of women to total employees was higher than that for the district (4.8) in case of professional & technical categories of workers (22.3\%) service workers (7.8\%) and unskilled workers (4.9\%).

2.17 Professional and technical women workers accounted for 54.8% of the total women employed in 1974 followed by production and related workers and transport equipment operators (13.3) service worker (7.4%); clerical & related workers (5.6%) and administrative, executive & managerial workers (1.2%) Unskilled women workers constituted 17.6%.

2.18 Some of the important occupations in which women employees are concentrated are as follows:

IALE 22

Occupation	Women employment as on 31- 3 -1974
Physicians and surgeons (Allopathic)	86
Nurses	433
Mid-wives & health visitors	276
Nursing & midwifery attendants	117
Librarians, archivists & curators	13
Social welfare workers	101
Teachers, University & Colleges	261
Teachers-Middle & Primary Schools	4,133
Teachers-Higher Secondary & High Schools	1,112
Teachers, crafts & others	566
Working proprietors, Directors & Managers, Wholesale & retail trading	6 4
Working proprietors, Directors & Managers manufacturing	63
Office Assistants	34
Stenographers and Stenotypists	42
Typists & tele-typists	34
Bank & ledger clerks	37
Clerks	248
Telephone & Telegraph operators	281
Maids & related house-keeping service workers	937
Chemical processors & related workers	37
Spinners & winders	1359
Electrical fitters and electrical & electronic equipment assemblers	80

Women employment in selected Occupations

Refer: Appendix VI-Women Employees by occupation in 1974.

2.19 A comparative study of the occupational profie of employed women labour force in 1974 with the total work force has revealed the following fields in which women workers were predominent; (i) Nurses;
(ii) Midwives; (iii) Health Visitors; (iv) Teachers—Infant schools; (v) Family Planning organisers, and (vi) Maids and related house-keeping service workers.

2.20 Employment, in establishments located in rural areas. Out of the total of 8291 establishments that were identified under the survey in the district of Kanpur in 1974, only 406 or 4.9 per cent were located in areas classified as rural according to 1971 census. These establishments accounted for an employment of 5.2 thousand in 1974 as against 2.6 thousand in 1967. Of the total employment of 5.2 thousand in 1974, services accounted for an employment of (2.8 thousand) followed by manufacturing (17.9 thousand) and trade & commerce (0.3 thousand).

2.21 Seasonal employment. In addition to regular employment discussed earlier, seasonal worker were also engaged. The minimum number of seasonal workers employed on single day was reported to be 6.8 thousands as against the maximum of 10.1 thousand. The following table indicates the industries in which the seasonal workers were employed.

TABLE 23

Seasonal employment by Industry

· · · ·	G	Emplo	yment Maximum	
Industry	Season NovJune NovJune NovJune	Minimum		
Manufacture of bricks & tiles	NovJune	4,945	7,018	
Leather & leather work	NovJune	836	1,261	
Milling, dehusking etc.	NovJune	615	1,059	
Production of edible fats & oils	FebJuly	266	516	
Production of ice & candees	FebOct.	120	247	
	Total	6782	10,101	

2.22 Analysing occupation-wise seasonal employees, the maximum number of persons were employed in production and related work. The following are the occupations where seasonal workers were employed.

TABLE 24

Seasonal employment by occupation

		Emplo	yment
Occupation		Minimum	Maximum
Clerical	· · · · ·	3	9
Sales		2 7	61
Tanners & fell mongers		155	227
Grain millers & parchers		3 15	590
Crushers & pressers—oil seeds		39	68
Brewers & aerated water makers		26	64
Bricks & Tiles—moulders & kilnmen		47,39	6,676
Others		111	214
Unskilled		1,367	2,198
	Total	6782	10101

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CHAPTER III

EMPLOYMENT GROWTH

3.1 Wage and salaried employment (number of regular employees) went up from 2.07 lakhs in 1967 to 2.73 lakhs in 1974, thereby showing an annual rise of 4.6 per cent. The employment is likely to rise further at an annual rate of 3.9 per cent and is expected to reach 3.27 lakhs by 1979. During the period 1967-79 the annual growth rate of employment works out to 4.8 per cent. 3.2 Growth components.—The components which constitute to the anticipated rise of 0.53 lakhs

during 1974-79 are:

Components	Anticipated growth (in thou- sands)	Major industries
I. Employment generated as a result of expansion of existing establishments including manpower contents of the plan schemes.	19.0	Rice; atta, flour; bakery products; cotton weaving in handloom; carpets & daries; currying & tanning of hides/skins; smelting, refining & re-rolling of iron and steel; iron & steel furniture; aluminium products; sundry hardwares; motor vehicles, engine parts; repairing & servicing of motor vehi- cles; generation & transmission of electric energy; banking; telephone communica- tion; educational services and public ser- vices in central and state government.
II. Employment expected to be generated in new establishments currently in blue-print stage.	8.8	Sugar; cotton dyeing; bleaching; cotton cordage, rope & belts; misc. textile pro- ducts; leather products; basic industral chemicals; turpentine, synthetic, resin & plastic; enamelling, galvanishing & weld- ing; summary hardware electric fans & lamps; electronic equipments; scientific, medical & surgical instruments construc- tion; scientific services in research institu- tions; public health & medical services and community services.
III(a). Employment projected for seg- ments marked by uniform growth pattern in private sector establishments employing 10 f more workers.	11.8	Food stuff; textiles; wood & wooden pro- ducts; printing and publishing; leather products; rubber products; basic chemicals; bricks & tiles; iron & steel; iron & steel furniture; sundry hardwares, motor vehi- cles & engine parts including servicing; machinery & electrical equipments; bank- ing; transporting by motor vehicles; educa- tional services; recreation services and hotels & restaurants.
III(b) Employment projected for smaller private establishments employing 5-9 workers.	13.9	Livestock; manufacturing including repairing & servicing units; trading units transport & storage and services.

3.3 Sectoral growth. The employment in public sector which constituted 50.2 per cent of the total employment in 1967 increased at an average annual growth rate of 3.4 per cent upto 1974 as against an anticipated yearly growth rate of 2.2 per cent by 1979. As against this, private sector employment which formed 49.8 per cent of the total employment in 1967, is likely to maintain an average growth rate of 5.4 per cent per annum during 1974-1979 as against the actual yearly growth rate of 5.8 per cent during 1967-1974. The continuous rising trend in private sector is mainly due to the impressive development of a large number of small, medium and large industries located in this area. The share of private sector in the total employment has also been gradually increasing from 49.8 per cent in 1967 to 53.0 per cent in 1974 and 56.4 per cent in 1979. This is attributed to the comparing higher growth rate for the private sector. The change in employment in public and private sector could be seen from the following table:

TABLE 25

Employment growth

(Figures in brackets indicate percentage to total)

÷	C		Er	Employment			Annual percentage growth rate during				
	Sector	Sector ~	1967	1974	1979	1967-74	1974-79	1967-79			
Public			103978 (50.2)	128472 (47.0)	142570 (43.6)	3.4	2.2	3.1			
Private			103106 (49.8)	$144978 \\ (53.0)$	184359 (56.4)	5.8	5.4	6.5			
		Total	20 70 84 (100.0)	273450 (100.0)	326929 (100.0)	4.6	3.9	4.8			

3.4. Employment by economic activity—The following table gives changes in the level of employment industrial divisions recorded between 1967-1974 and the anticipated rise during the next five by years.

	TABLE 26
	Employment by Industrial Divisions

	E	mployment		Increase (+	e ()		
Industrial Division 6	1967	1974	1979	1967-74 Number	% per year	1974-77 Number	% per year
Agriculture, livestock	828	1446	1697	+618	+10.7	+251	+3.5
Manufacturing	101837	132533	16 38 45	+30696	+4.3	+31312	+4.7
Construction	3930	5503	5435	+1573	+5.7	68	0.2
Electricity, gas, water & sanitary services	5092	6940	8140	+1848	+7.2	+1200-	+3.5
Trade & Commerce	15218	25852	31,579	+10634	+10.0	+5727	+4.4
Transport, storage & communication	12234	16976	19862	+4742	+5.5	+2886	+3.4
Services	6 79 45	84200	96371	+16255	+3.4	+12171	+2.9
Total	207084	273450	32692 9	+66366	+4.6	+53.479	+3.9

Refer: Appendix VII-Employment growth by Economic Activity.

3.5 Substantial growth in employment during the last seven years in terms of absolute number was recorded in manufacturing (30,696), followed by services (16,255), trade & commerce (10,634), transport, storage & communication (4,742), electricity, gas, water & sanitary services (1,848) and construction (1573). During the next five years, manjufacturing is expected to show a rise of (31,312) followed by services (12,171), trade & commerce (5727), transport, storage & communication (2,886) and electricity gas, water & sanitary services (1,200).

3.6 Although increases in employment for the next five years by 1979 have been anticipated in all the industrial divisions except construction (where there is a fall), however the annual percentage growth is not of the same order as revealed between 1967-74. Only in case of manufacturing industries the annual percentage growth during 1974-79 (4.7%) is expected to be slightly more than the actual annual growth recorded between 1967-74 (4.3%). The anticipated yearly growth rates during 1974-79 in all other activities are expected to be less than the corresponding actual ones recorded during 1967-74. The agriculture and livestock is expected to grow at a rate of 3.5% per annum during 1974-79 as against the significant yearly growth rate of 10.7% recorded between 1967-74. The likely annual rates of growth during 1974-79 in electricity, gas, water and sanitary services and Trade & Commerce are almost half of the actual growth rates recorded during 1967-74. The anticipated growth rate in services (2.9%) is expected to be slightly less than the actual growth rate of 3.4% recorded during 1967-74. The activities of transport storage and communication which recorded 5.5% annual growth rate during 1967-74 is likely to rise further at the rate of 3.4 per cent per annum.

3.7 Manufacturing.—The employment growth in selected important industries, which together account for about three-fourths of the total employment under manufacturing in 1974, is given in the following table:

TABLE 27

Employment growth in selected industries

	1967	Employment 1974	1969	Increase (- 1967-74	-)Decrease 1974-79
Rice, atta, flour	880	1788	2673	908	885
Bakery products	492	1216	1712	681	539
Edible fats & oils	710	1216	1658	506	442
Sweet-meat & condiments	423	855	1198	432	343
Cotton spinning & weaving in mills	42990	42721	42721	269	••
Cotton weaving in powerloom	310	621	96 9	311	348
Cotton wearing in handloom	953	1 2 54	1 8 0 3	301	5 49
Cotton cordage, rope & belts	441	70	1088	259	388
Jute spinning & weaving & other jute products	3369	4469	4482	1100	13
Wool spinning & weaving	3372	4443	4443	1071	
Carpets & daries	1936	2526	3460	590	934
Textile garmetns	1226	3410	5312	21 84	1902
Sawing & planing of wood	492	1144	1748	652	604
Printing & Publishing	1206	2066	2 8 41	860	775
Currying, tanning & finishing of hides	2001	2 878	3906	877	1028
Shoes & other leather foot-wear	862	4016	468 6	3154	670
Basic industrial chemicals	6 87	999	1403	312	404
Fertiliser	••	1233	1313	1233	80
Medicines, pharmaceuticals & cosmetics	614	897	1231	283	334
Turpentine, synthetic, resin & plastic products	2217	3730	4530	1513	800
Bricks & tiles	283	874	1458	591	584
Smelting, refining re-rolling of iron & steel	3193	3781	4995	58 8	1214
Iron & steel furniture	616	731	1368	115	637
Metal products such as tin can	506	936	1539	430	60 3
Sundry hardwares	1933	3776	6583	1843	2807
Agricultural implements & oil engines etc.	583	1317	1 9 84	734	667
Electric lamps and fans	399	766	1491	367	725
Repairing & servicing of motor vehicles	3713	5187	6657	1474	1470
Aeroplanes & aeroengines	2249	3524	3524	875	••

(Refer: Appendix VII--Employment growth by Economic Activity)

^{3.8} Industries such as cotton weaving in powerloom; cotton weaving in handloom; cotton cardage rope & belts; carpets & daries; currying, tanning & finishing of hides; basic industrial chemicals; medicines, pharmaceuticals & . cosmetics; smelting, refining & re-rolling of iron & steel; iron & steel furniture; metal products such as tin cans; sundry hardwards and electric lamps & fans are likely to pick up at a faster rate by 1979 as compared to actual increases recorded during the past seven years i.e., 1967-74. Increases of the same magnitude have been noticed during the past seven years and the next five years in respect of rice, atta and flour; sawing & planing of wood; printing & publishing; bricks & tiles; agricultural implements & oil engines etc., and repairing & servicing of motor vehicles. Industries which have shown downward trend in the growth during 1974-79, as compared to 1967-74 are bakery products; edible fats & oils; sweetmeat & condiments; Jute spinning & weaving and other jute products; shoe & other leather

footwear; textile garments; fertilisers; and turpentine, synthetic, resin & plastic products. The employment in 1979 is expected to be the same as in 1974; for the three industries of cotton spinning & weaving in mills; wool spinning & weaving and aeroplanes & aero-engines. They have however shown increases during 1969-74.

3.9 Services.—Administrative services which recorded a rise of 4.6 thousand between 1967-1974 are likely to gain by another 4.3 thousand during the next five years. Educational services (non-technical) which recorded a rise of 6.3 thousand between 1967-1974 are likely to gain by 3.8 thousand only by 1979. Medical & health services are also expected to show gains during the next five years. Hotels&restaurants which recorded a rise of 1.8 thousand between 1967-1974, are likely to gain by another 1.6 thousand during the next five years.

TABLE	28
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Employment growth in services

		Employme	ent	Increase		
Category of service	1967	1974	1979	1967-74	1974-79	
Administrative services in govt., quasi-govt. & local bodies	34579	39215	43559	4636	4344	
Educational services (technical)	37 15	4860	5 38 0	1145	520	
Educational services (non-technical)	17542	23794	27615	6252	3821	
Scientific services & research Institutions	1046	1322	1467	276	145	
Public, health & medical services	7329	8358	8900	1029	542	
Community services	863	1189	1808	326	619	
Recreation services	513	755	957	242	202	
Hotel and restaurants	1600	3414	4976	1814	1562	
Others	758	1293	1709	535	416	
- Total	67945	84200	96371	16255	12171	

(Refer: Appendix VII ----- Employment growth by Economic Activity)

3.10 Shift in the industrial disposition of the employed labour force.—Although, the increase in employment recorded between 1967-74 and the anticipated rise during next five years by 1979 has been of different orders for various industries, the relative position of all industries according to employment in 1979 is likely to be the same as it was in 1974 and 1967. The share contributed by services which was 32.8%of the total employment in 1967 became 30.8% in 1974 and is expected to reduce further to 29.5% by 1979. The gain has been in trade & commerce which is likely to constitute 9.6% of total employment in 1979 as compared to 9.5% in 1974 and 7.3% in 1967. The proportion of employment in manufacturing industries showed a marginal decrease from 49.2% in 1967 to 48.5% in 1974. An increase in their proportion has however been anticipated by 1979 and are expected to constitute 50.1 per cent of the total employment. The relevant data are contained in the following table:—

TABLE	29
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Industrial composition of employees

	Percentage o	Percentage of employees to total					
Industrial division	1967	1974	1979				
Agriculture, livestock	0.4	0.5	0.5				
Manufacturin g	49.2	48.5	50.1				
Construction	1.9	2.0	1.7				
Electricity, gas, water & sanitary services	2.5	25	2.5				
Trade & commerce	7.3	9.5	96				
Transport, storage & communication	5 .9	6.2	6.1				
Services	32.8	30.8	29.5				
Total	100.0	100.0	100.0				

3.11 Employment growth by occupations.—The following table shows by broad occupational divisions changes in employment between 1967-1974 and 1974-79:

TABLE 30

		Number of	Employees		ase	
	Occupational Division	1967	1974	1979	1967-74	1974-79
	1	2	3	4	5	6
Ι.	Professional, technical & related workers	24123	32328	39031	8205	6703
	(i) Scientists, engineers & technologists	4662	6380	758 9	1718	1209
	(ii) Doctors and medical & health technicians	2401	3058	3466	657	408
	(iii) Teachers	14636	1 9 385	2 38 66	4749	4484
	(iv) Accountants, social scientists & other professionals	2424	3505	4110	1081	605
11.	Administrative, executive & managerial workers	9479	16830	22317	7351	5487
ш.	Clerical & related workers (excluding unskilled office workers	27398	37398	42271	10000	4873
IV.	Sales workers	3280	6002	7915	2722	1913
v.	Service workers (excluding watchman, chowkidars' cleaners, sweepers & watermen)	7563	1260 9	14445	5046	1836
VI.	Farmers, loggers & related workers (excluding agricultural & plantation labourers)	802	1653	1922	851	169
VII.	Production & related workers and transport equipment operators (excluding labourers)	96461	120003	143488	23 542	23485
	(i) Production & related workers	93581	1159 8 8	139055	22407	23067
	(ii) Transport equipment operators	2880	4015	4433	1135	418
ш.	Unskilled workers	37978	46627	55540	8649	8913
	Total	207084	273450	326929	66366	53479

Employment by occupational divisions

(Refer: Appendix VIII-Employment Growth by occupation)

3.12 Certain highlights of occupational composition of employees as obtained in the past, present and future are given hereunder:---

- I. Professional & Technical Workers.
 - (a) Scientists, engineers & technologists.—The number of such persons recorded an actual increase of 1718 during 1967-1974, and are likely to gain further by 1209 during the next five years. Chemists civil engineers, electrical engineers, mechanical engineers, draughtsman and technicians—mechanical engineering are showing an increasing trend.
 - (b) Doctors and medical & health technicians.—These workers recorded an increase of 657 during the previous seven years and are likely to increase by another 408 during next five years.
 - (c) Teachers.—As against an actual rise of 4749 recorded between 1967-1974, their number is expected to rise further by 4481 during the next five years.
 - (d) Accountants, social scientists and other professional workers.—These workers recorded an increase of 1081 during the last seven years and are likely to rise by 605 between 1974-1979.
- II. Administrative, Executive and Managerial workers.—The number of such persons rose from 9.5 thousand in 1967 to 16.8 thousand in 1974, and is likely to rise further to 22.3 thousand by 1979. A phenomenal increase is noticed among working proprietors/partners.
- III. Clerical & related Workers.—The number of such persons who has recorded an actual growth of 10.0 thousand during 1967-1974 is expected to increase by another 4.9 thousand by 1979.
- IV. Sales workers.—These workers recorded an actual increase of 2722 during 1967-1974 and are likely to gain further by 1913 during the next five years.

- V. Service Workers.—The service workers, whose number in 1967 was 7563 rose to 12609 in 1974 and is likely to rise further to 14,445 by 1979. Among them cooks, bearers, waiters and launderers are indicating substantial growth.
- VI. Farmers, loggers and related workers.—A small increase of 269 during 1974—1979 has been anticipated as against an increase of 851 persons during the past seven years.
- VII. Production and related workers and transport equipment operators—
 - (a) Production and related workers.—The number of production & related workers is likely to increase by 23.1 thousand during the next five years (1974-1979) as against an actual rise of 22.4 thousand recorded during the past seven years. The marked upward trend is mainly noticeable in metal rolling mill workers (250), moulders & core makers (315), wood sawyers & related workers (280), chemical processors (386), spinners & winders (782), weavers handloom (373), carpet & daries weavers (550), tanners & fellmongers (399), grain millers & parchers (538), bakers & confectioners (794), tailors & dress makers (882), pattern makers & cutters (517), sewers & embroiders (390), shoe makers & repairers (415), carpenters (336), blacksmiths (332), machinists (436), turners & lathe operators (589), watch, clock & precision instrument makers (454), fitters (460), motor vehicle mechanics (528), electricians (420), telephone & telegraph installers & repairmen (286), electric linemen & cable jointers (494), welders & flame cutters (553), plastic product makers (519), and printing pressmen (306).
 - (b) Transport equipment operators.—This category of workers are likely to record an increase of four hundred persons during the next five years as against an actual gain of 1.1 thousand recorded during last seven years.

3.13 Occupational Shift—Percentage composition of employees in different occupational groups is given in the following table:

Occupational distribution				
Occupations	Per	Percentage composition of employees		
	1967	1974	1979	
Profession, technical & related workers	11.7	11.8	11.9	
Administrative, executive & managerial workers	4.6	6.2	6.8	
Clerical & related workers	13.2	13.7	12.9	
Sales workers	1.6	2.2	2.4	
Service workers	3.6	4.6	4.4	
Farmers, loggers & related workers	0.4	0.6	0.6	
Production & related workers and transport equipment operators	46.6	43.9	43.9	
Unskilled workers	18.3	17.0	17.1	
Total	100.0	100.0	100.0	

TABLE 31

3.14 A decreasing trend in the proportion of employment to total is noticeable in case of production & related workers and transport equipment operators, as well as in case of unskilled workers during 1967-1974. As against these decreases an upward shift in the proportion of professional technical & related workers; administrative, executive & managerial workers; sales workers and farmers, loggers & related workers, have been noticed—the significant shift being in case of administrative, executive & managerial workers. Clerical and related workers who constituted 13.2% of the total in 1967, increased to 13.7% in 1974. Their proportion in 1979, however, came down to 12.9%. Similar phenomen on has also been observed in case of service workers whose proportion increased to 4.4% in 1979 from 3.6% in 1967, after touching 4.6% in 1974.

3.15 Factors hindering existing production and/or expansion Information about various factors hindering expansion or fuller utilisation of installed capacity was also obtained from manufacturing

industries in private sector. Financial assistance emerged as a common difficulty being experienced by most of the manufacturing industries. A brief resume of hindering factors faced by various industries is given below :-

Land

Rearing of Livestock Rice, atta, flour Tobocco products Cotton weaving in handloom & powerloom Carpets & daries Sawing & planing of wood Printing & Publishing of books Leather & leather products (including shoes) Turpentine, synthetic, resin & plastic products Sundry hardwares

Power/Finance

Rice, atta, flour Edible fats & oils Hydrogenated oils Cotton weaving in handloom & powerloom Carpets & daries Sawing & planing of wood Printing & Publishing of books Leather & leather products (including shoes) Chemical & chemical products Turpentine, synthetic, resin & plastic product Smelting, refining & re-rolling of iron & steel Smelting, refining & re-rolling of non-ferrous Metals and alloys Metal products such as tin cans Sundry hardwares Agricultural implements & oil engines Prime movers, boilers & road rollers Electric lamps and fans Repairing & servicing of motor vehicles

Raw material

Bakery products Cotton weaving in handloom & powerloom Carpets & daries Printing and publishing Turpentine, synthetic, resin & plastic products

Smelting, refining & re-rolling of iron & steel; iron & steel furniture, Metal products; Sundry heardwares, sheets, copper, aluminium cast iron. Agricultural implements & oil engines, Prime movers, boilers & road rollers; Electric lamps & fans, Bicycles & accessories.

Maida, sugar Raw cotton Raw cotton/wool dyes Paper, ink, films for block making Synthetic rubber, white raw rubber titanium dioxide; plastic grains; urea

Mild steel, rounds bars, black sheets, Galvanised

CHAPTER IV

MANPOWER REQUIREMENTS

(A) MANPOWER CONTENTS OF THE PLAN SCHEMES

4.1 State planning unit of the Government of Uttar Pradesh has prepared the Kanpur district plan in consultation with the concerned district officials. Paramount importance has been given to the National Minimum Needs Programme while chalking out the district plans. The salient features of the National Minimum Needs Programme are as follows:—

- (i) To provide a Primary and middle school within a walking distance from each village *i.e.* 1.5 km in the case of primary school and 5 kms in the case of middle school;
- (ii) To provide one Primary Health Centre for each Community Development Block and one Sub-Centre for every 10,000 of population; provisions for upgradation of one in every four Primary Health Centres to the status of 30 bed rural hospital with specialised services in surgery, medicine obstetrics, gynaecology and anaesthesia;
- (iii) To ensure that at least 30-40 per cent of villages are electrified;
- (iv) To ensure drinking water to villages suffering from chronic scarcity or having to rely upon unsafe sources of water;
- (v) To provide roads for all villages with population of 1500 and above;
- (vi) Home-sites for rural landless; and
- (vii) Slum improvement and clearance.

4.2 All the establishments identified in the area were requested to estimate their future manpower requirements arising out of the normal expansion and future programmes (Part III(c) of AS-I—Appendix-I). The experience has, however, shown that all public sector establishments at the district level are normally not in a position to furnish future manpower needs as plans are finalised at the state level. In all such cases government officials at the state level concerned with the finalisation and implementation of schemes were contacted and specially designed questionnaires (AS-VIII-Appendix-I) was canvassed for the purpose of assessing manpower contents of the plan proposals included in the fifth plan of the area. This has been done mainly to arrive fairly accurate manpower estimates in respect of public sector establishments which otherwise are not in a position to gauge their future requirements properly. Industry-wise details of the figures thus arrived at through schedule AS-VIII are given below:—

TABLE 3	2
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Industry-wise manpower requirements

Industry	Manpower require
Agriculture, Livestock forestry, fishing and hunting	117
Manufacturing	41
Electricity, gas, water and sanitary services	644
Transport, storage and communication	1,458
Services	1,194
Total	3,454

4.3 Following are some of the important details:

- (i) Rural electrification. It is proposed to electrify all the villages having population of more than 500 in this district. 996 villages are expected to be electrified during the fifth plan period.
- (ii) Rural water supply. Rural drinking water supply programme is accorded high priority in the minimum needs programme of this district. 71 villages are likely to get tank water facilities during the fifth plan period.

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- (iii) Transport and Communication: The development of roads plays a vital role in the development of district and therefore it is proposed to increase the length of the roads from 849 kms. to 2.24 kms. Through this all the villages will be connected by roads having more than 100 population. Railway authorities are expected to establish motor repairs workshop (traction) during the fifth plan period.
- (iv) *Education*: In order to improve the educational facilities and to implement the policies laid down in the minimum needs programme, besides strengthening the existing educational institutions, it is proposed to open 113 primary schools, 66 junior high schools during the fifth plan period.
- (v) Medical and Health: It is proposed to open one Primary Health Centre in each development block having population of 14 thousand. In addition to that it is also proposed to open 40 alopathic, 29 Ayurvedic and 160 maternity centres during the fifth plan period in the district.

4.4 The Occupational-wise manpower requirements to implement various plan schemes referred to in para 8.2 above is given below:—

Occupationwise man	power require	ments
--------------------	---------------	-------

Occupations	Manpower requirements
Professional, Technical and related workers	1149
Administrative, executive and managerial workers	15
Clerical and related workers	687
Farmers, fishermen, hunters, loggers and related workers	50
Service workers	14
Production and related workers, transport equipment operators and labourers	1539
Total	3454

4.5 From the above table it may be seen that the largest component of manpower needs during the fifth plan period is that of production and related workers, transport equipment operators followed by professional, technical & related workers and clerical & related workers.

(B) OVERALL REQUIREMENTS

4.6 The Manpower needs have been built up on the basis of the following components:---

- (i) Employment growth—ibid chapter—III
- (ii) Replacement needs due to attrition in the employed work force—ibid Technical Notes para 8.
- (iii) Vacancies remaining unfilled as on 31-3-1974—ibid Technical Notes para 8.

4.7 **Manpower needs by occupational categories**.—The skilled requirements of the area by 1979 will be of the order of 76.7 thousands (excluding unskilled workers, who are likely to be of the order of 13.8 thoudands) Following table gives manpower requirements by broad occupational categories:—

	TABLE	34	

Manpower	needs by occupational categories	
manpower	needs by becapacional calegories	

	Occupation	Number Percentage to	grand tota
Ī.	Professional, technical & related workers	10907	12.1
	 (i) Scientists, engineers & technologists (ii) Doctors and medical & health technicians (iii) Teachers (iv) Accountants, social scientists & other professionals 	2153 986 6778 990	2.4 1.1 7.5 1.1
Π.	Administrative, Executive & Managerial workers	7246	8.0
III.	Clerical & related workers (excluding unskilled office workers)	8952	9.9
IV.	Sales workers	2513	2.8
v.	Service workers, (excluding watchmen, chowkidars, cleaners, sweepers & watermen)	3150	3.5
VI.	Farmers, Loggers & related workers (excluding agricultural & plantation labourers)	444	0.5
VII	Production process & related workers and Transport Equipment operators (excluding labourers)	43374	48.0
	 (i) Production & related workers (ii) Transport Equipment Operators 	42526 848	$\begin{array}{c} 47.1 \\ 0.9 \end{array}$
	Total	76586	84.8
VII	I. Unskilled workers	138 21	15.2
	Grand Total	90407	100.00

(Refer:-Appendix-IX-Manpower Requirements)

4.8 Of the total manpower needs, the requirements for production & related workers and transport equipment operators will be the largest (43.4 thousand) forming 48.0 per cent of the total. Professional and technical workers (10.9 thousand) come next being 12.1 per cent of the total, followed by clerical workers (9.0 thousand) forming 9.9 per cent of the total needs. Administrative executive and managerial workers (7.2 thousand) form only 8.0 per cent of the overall future requirements. The manpower needs of the area will be comparatively small for service workers (3.2 thousand) sales workers (2.5 thousand) and farmers loggers, & related workers (0.4 thousand) which form 3.5% 2.5% and 0.8% respectively of the total needs.

4.9 **Professional and Technical. workers** — The more important and crucial manpower needs among this category are:—

	<i>c</i> ,	
(i)	Scientists, Engineers & Technologists	
	Mechanical Engineers	220
	Electrical Engineers	130
	Civil Engineers	110
	Chemical Engineers	50
	Textile technologists	70
	Chemists	330
	Draughtsmen	200
	Overseers-Civil Engineering	150
	Technicians-Electrical & electronics	90
	Technicians —mechanical engineering	340
	Agricultural scientists	50
(ii)	Doctors and Medical & Health Technicians	
	Physicians & Surgeons allopathic	190
	Nurses	210
	Midwives & Health Visitors	- 50
	Veterinary assistants	100
	Pharmacists	100
	Nursing & Midwifery attendants	110
	Vaccinators & dressors	90
(iii)	Teachers	
	Middle & Primary School	4170
	Secondary School	1250
	University & College	1140
	Crafts, Arts, drawing & other	220
(iv) Accountants, Social Scientists & other Professionals	
	Accountants & Auditors	390
	Librarians, Archivists & Curators	40
	Composers & performing artists	170
	Labour & social Welfare Workers	40
	Laboratory attendants	· 190

4.10 Out of the total jobs likely to come up during the next five years, 460 will pertain to the three principal branches of engineering, namely civil, mechanical and electrical. The demand for chemists during the next five years is also likely to be sizeable. Among medical & health personnel, nurses; physicians & surgeon allopathic; midwife & health visitors veterinary assistants; vaccinators & dressers and pharmacists are going to be in greater demand. As a result of the launching of the minimum needs programme during fifth five year plan, teachers at all levels will be required in large number. The other demands which deserve special attention are accountants and auditors. **4.11 Production & Related Workers and Transport Equipment Operators.**—Details of manpower requirements for production process workers are given in Appendix-IX. Requirements for some important occupations in this category are as follows:—

Category	Number
(i) Production and related workers	
Metal rolling mill operators	310
Moulders & core makers	450
Wood sayers & related wood processing workers	340
Chemical processors—other	470
Fibre preparers	1040
Spinners & windersother	1600
Weaver-powerloom	1200
Weaver-handloom	450
Carpet & dari weavers	670
Tanners & fell mongers	700
Grain millers, parchers & related workers	640
Bakers, confectioners & sweet-meat makers	890
Tailors & dress makers	3300
Pattern makers & cutters	610
Sewers & embroiders	500
Shoe makers & repairers	480
Harness & saddle makers	1500
Leather goods makers	330
Carpenters	590
Blacksmiths	490
Tool makers & metal pattern makers	520
Machinists	1200
Turners & lathe operators	840
Metal grinders, polishers & tool sharpeners	430
Watch, clock & precision instrument makers (except electric)	480
Fitters	1570
Motor vehicle mechanics	640
Air craft engine mechanics	160
Millwright	160
Electricians	540
Telephone & telegraph installers & repairmen	300
Electric linemen & cable jointers	550
Welders & flame cutters	830
Sheet metal workers	220
Plastic product makers	600
Printing press-man	370
Checkers, testers, sorters, weighers & counters	410
Packers & labellers & related workers	620
(ii) Transport equipment operators	
Drivers—railway	60
Drivers—car	120
Drivers-bus	70
Drivers-truck	250
Drivers-cycle rickshaw	250

4.12 Among production & related workers substantial demand is expected for tailors & dress makers (3300); spinners & winders—other (1600); fitters (1570); harness & saddle makers (1500); weavers powerloom (1200); machinists (1200); fibre preparers (1040); turners & leather operators (840); welders & flame cutters (830); carpet & dari weavers (670); electric linemen & cable jointers (550); plastic product makers (600); electricians (540); carpenters (590); blacksmiths (490); moulders & core makers (450); weavers handloom (450); during next five years. Under transport equipment operators demand is expected to be generated for drivers—railways, car, bus & truck. 4.13 **Manpower requirements by educational level.**—Employers were also requested to furnish information about the educational & technical qualifications of workers likely to be in demand during the next five years. The following table shows the percentage break up of additional manpower requirements according to the level of education and technical qualifications for which information has been collected.

TABLE 35

Manpower requirements by educational level

Level of education	Percentage
Below Matric (including illiterates)	47.8
Matric and above but below graduate	10.5
Graduate and post-graduate-science, arts, commerce and law etc.	9.4
Professional and technical graduate & above in Engineering	1.6
Education	4.2
Other including medical	0.3
Diploma holder in Engineering and Technology Recognised certificates (such as those issued by ITI and teachers training institute etc.)	2.5 23.7
Total	100.0

4.14 Slightly less than half of the total manpower needs during 1974-1979 will be for below matriculates including illiterates. This includes sizeable requirements for production & related workers for whom no formal institutional training or possession of a recognised certificate or diploma has been considered as an essential criteria for recruitment. The manpower needs in this case are normally being met through informal inplant, apprenticeship or institutional training organised by the establishments. Nearly one-fourth of the total jobs will be for recognised certificate holders which includes demand for primary and middle school teachers; production & related workers as well as para medical workers.

CHAPT'ER V

SELF-EMPLOYMENT

(A) RURAL AREAS

5.1 Information about self-employment in the non-agricultural activities in the rural areas was collected from a sample of 10 per cent of the villages in the district. Villages were selected on sample basis from each community development block. The sample was drawn on the basis of 1971 census data after listing the villages falling within each development block according to the descending order of population i.e. the name of the village which has the largest population in the block was put on the top, followed by villages with decreasing order of population. Every 10th village beginning with the first was taken up for the survey This involved a study of 198 villages representing 14.0 per cent of the total rurals population of the area.*

5.2 The information about the existing avenues of self-employment in non-agricultural activities was collected by organising systematic and comprehensive door-to-door survey of all the sampled villages to identify establishments in the size class 1-4 workers (including both wage paid employment as well as self-employment). The information about such aspects as nature of the activity of establishment, number of persons engaged in self-employment on full-time/part-time basis, difficulties faced and assistance needed, if any, was obtained during the course of the street survey in respect of each of the establishment is o identified. After the completion of door-to-door survey, data was compiled and entered in item-II of village schedule AS-V (Annexure-I). Information about the additional opportunities of self-employment that could be created in the light of modernisation of agriculture, local produce and other resources expanding needs for maintenance and other services was then elicited by making enquiries from village elders, Government village officials, other knowledgeable persons who possess intimate knowledge of the respective village community. It is felt that these estimates would be fairly indicative of existing number of self-employed and the additional number of persons that could be absorbed as self-employed in the non-agricultural activities in the rural areas.

5.3 The survey revealed that 54.4 thousand persons were self-employed on full-time basis in 1974 in various non-agricultural activities. In addition 3.8 thousand persons were self-employed on part-time basis. Besides, 0.9 thousand seasonal workers were engaged at the peak of the season as against 0.5 thousand at the slack season. Additional opportunities for self-employment could be created to the extent of 50.1 thousand persons in the light of modernisation of agriculture, local produce, other resources, expanding needs for maintenance and other services.

5.4 The fields in which persons are currently self-employed and fresh employment opportunities that could be developed in the near future are indicated in the following table:

Field	Existing No. of per	Scope for future		
	Full-time	Part-time	Total	self-employmen
1	2	3	4	5
a) Field having existing and future avenues of employment				
Dairy farming and milk selling	3070	••	3070	15320
Spinning and weaving	680	60	740	4630
Poultry farming .	250	••	250	3560
Carpentry and wood working	2130	80	2210	3350
Retail selling	16300	1870	18170	3030
Nursery and vegetable cultivating	1400	70	1470	1870
Blacksmithy	2240	50	2290	1420
Piggery and sheep rearing	1460	••	1460	1270
Tailoring	4660	60	4720	1250

 TABLE 36

 Existing and future avenues of self-employment in rural areas

*Bloating of the data was done on the basis of population covered in the sample.

1	2.	3	4	5
Oil expelling	160	••	160	1050
Brick laying	830	40	870	1020
Shoe making and repairing	890		890	980
Repairing and servicing of diesel engines, agricultural implements	330		3 30	93
Basket making	510		510	84
Pottery	2190	190	2380	75
Laundrying, dyeing and bleaching	3460	350	3810	66
Bidi making	10		10	630
Fishing and boating	200	••	200	600
Food and beverage processing	2090	140	2230	56
Sheet metal working	130		130	420
Bicycle repairing	1290	10	1300	37
Ice-cream making	30		30	16
Plastic goods making	50		50	110
Hair-cutting (barber)	3430	180	3610	110
Transporting by motor and other vehicle	560	••	560	6
Butchery and meat selling	430	••	430	60
Sweet meat making	1110	20	1130	50
Others	750		750	30
Fields having no scope of future employment				
Medical practice	1090		1090	• •
Music, singing and dancing	650	670	1320	•
Purohit	300	• •	300	
Precission instrument and watch repairing	160		160	•
Electrical wiring and repairing	200	• •	200	•
Goldsmithy	510	••	510	
Fire works and agarbatti making	140		140	•
Catering	730	••	730	••
Fields having future scope of employment				
Soap making	••	••	••	1500
Tanning and seasoning of leather	••	••	. • •	1420
Khandsari and gur making	••	••	· • •	870
Candle making			••	480
Match making		••		290
Food preservation		••	••	210
Total	54420	3790	58210	50130

5.5 As may be expected, considerable scope for self-employment exists in such allied agricultural fields as dairy farming; poultry farming; nursery & vegetable cultivating and piggery and sheep rearing. Scope for self-employment also exists in such non-agricultural fields as spinning and weaving; carpentry and wood work; retail selling; blacksmithy; tailoring; oil expelling; brick-laying; shoe-making and repairing; repairing and servicing of diesel engines and agricultural implements; basket making; pottery ; laundrying; dyeing and bleaching; bidi making and fishing and boating. Some of the new fields are soap making; tanning and seasoning of leather; khandsari and gur making and candle making.

5.6 Of the total number of 3.8 thousand persons self-employed on part-time basis, 1870 were engaged in retail selling; 670 in music, singing and dancing; 350 in laundrying, dyeing and bleaching; 190 in pot. tery; 180 in hair cutting (barber); and 140 in food and beverage processing.

5.7 It would be seen from the data presented in table that some fields have large potential for selfemployment in future. While trained and experienced craftsmen would be needed to take up such work as carpentry; blacksmithy; tailoring; repairing & servicing of diesel engines and agricultural implements; it will also be adventageous organise short-term training courses particularly in the fields of dairy farming; poultry; piggery and sheep rearing; food and beverage processing; soap making; tanning and seasoning of leather and food preservation. 5.8 Efforts will, however, have to be made to enable willing persons to establish themselves in rural areas by providing such inducements as financial assistance, provision of electric connection; raw material transportation and marketing facilities. The following chart summarises the type of assistance that would be needed in various fields.

Field	Type of assistance
Retail selling; laundrying, dyeing and bleaching; nursery and vege- table cultivating; dairy farming; poultry farming; fishing; food and beverage processing; spinning and weaving; tanning and seasoning of leather; oil expelling; khandsari and gur making; bidi making; tailoring; shoe making; and repairing; carpentry and wood working; blacksmithy;	Financial assistance
Dairy farming; oil expelling; carpentry and wood working	Provision of electricity
Dairy farming; poultry farming; food and beverage processing; spin- ning and weaving; tanning and seasoning of leather; khandsari and gur making; tailoring; shoe making and repairing; carpentry and wood working; blacksmithy; pottery;	Marketing and transport facilities

Working Proprietors and partners

5.9 As many as 250 private establishments in rural areas (out of 350) reported existence of one or more working proprietors and partners who were actively engaged in day-to-day operation of their establishments. Almost all (85.5%) the smaller private establishments (employing 5-9 workers) reported existence of working proprietors and partners. Of the total employment of 1159 in such establishments, 351 or about 30 per cent were working proprietors and prtners. Similar analysis for bigger establishments (employment 10 or more workers) indicated that working proprietors and partners were actively engaged in 45.5 of the total establishments and the proportion of proprietors and partners to the total employment was 1: 6.

5.10 Principle industries which were built up as a result of individual entrepreneurship are given below:

Industries	No. of establish- ments		neat No. of work ing pro- prietors/partners	
Rice, atta and flour	41	319	83	
Ice & ice cream	3	19	4	
Wood & wooden products	18	129	29	
Leather and leather products	12	78	23	
Rubber and rubber products	2	60	4	
Sundry hardwares	4	22	5	
Bricks and tiles	75	579	156	
Retail trading in petrol and mobile oil etc.	23	146	38	
Selling in other goods	12	72	37	
Hotels & restaurants	24	143	37	

5.11 The above data indicates the avenues which in the light of rural characteristics provide scope for self-employment besides generating paid employment.

5.12 A study of occupational profile of working proprietors and partners revealed that majority of them have taken up administrative and managerial functions. Other fields in which they were engaged are production and related work and clerical and sales as could be seen from the table below:

Occupation		No. of working pro- prietors and partners
Professional and technical		4
Administrative and managerial		396
Clerical and sales		33
Production and related work		30
Others		4
	TOTAL	476

Level of education		Number	Percentage
Below matriculation (including illiterates)		323	67.9
Matriculation and above but below graduation		111	23.3
Graduation and above but below post-graduation		29	6.1
Post-graduation		8	1.7
Professional and technical		5	1.0
	TOTAL.	476	100.0

5.13 An analysis of the educational attainment of the working proprietors and partners revealed that no relationship exists between the level of education and type of work performed by them. Following data shows their educational profile:—

(b) Urban Areas

5.14 A comprehensive account of self-employment in urban areas was outside the scope of the present survey. However, a limited assessment in respect of these segments of economy for which information was readily available from existing records of government departments, local bodies, employers and trade associations, licensing authorities etc. was attempted. The data gives an indication of the changes in the size of self-employment which may also in certain cases, have an element of direct employment. While translating the number of licences, registration etc. into manpower terms, consideration will have to be given to the fact that these numbers do not necessarily represent an equal number of self-employees. For instance, each public carrier may provide employment to 4—8 persons whereas in the case of Cycle-rickshaw 2-3 persons might be engaged in plying it on shift basis.

TABLE	37
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_		1967	1974	Increase Decrease	(+) (—)
Ι.	NUMBER OF LICENCES ISSUED				
	(A) Railway authorities				
	Porters	401	401		
	Hawkers and Venders	184	201	+	17
	(B) Regional Transport Authority				
	Trucks	271	507	+	236
	Buses	89	129	+-	40
	Tractors	89	441	+	352
	Taxies	7	34	+	27
	(C) State Excise Authorities				
	Opium Shops	146	134		12
	Bhang Shops	76	89	+	13
	Spirit Shops	71	73	+	2
	Ganja Shops	21	27	+	6
	Liquor Shops	96	128	+	3 2
	Toddy Shops	21	23	.+	2
	(D) Collectorate and Civil Supply		•		
	Stamp Vendors	73	82	+	9
	Lottery Agents	•••	48	+	48
	Fair Price Shops	430	623	+	193
	Brick Kiln Owners	704	714	+	10
	Coal Depot	••	51 7	+	51 7
	Kerosene Oil Dealers	••	131 3	+	1313
	Sugar Shops	48	549	· +	501

		1967	1974	Increase (+) Decrease (—)
(E) Municipalities			
	Bakeries	N.A.	196	
	Meat Sellers	N.A.	204	
	Fish Sellers	N.A.	104	
	Sweetmeat Sellers	N.A.	1200	
	Butchers	N.A.	11	
II. N	UMBER REGISTERED			
(A	A) Thelas	13500	15971	+ 2471
	Cycle rickshaws	9267	144 8 6	+ 5219
	Ekka/Tongas	1537	1680	+ 143
	Carts	33	37	+ 4
(H	3) Bar Council			
	Lawyers/Advocates	815	1021	+ 206
(0	2) Medical Association			
	Medical Practioners	488	377	- 111
I)	D) Others			
	Agent, Life Insurance	1289	1475	+ 186
	Contractor	256	286	+ 30
	Weavers	6700	9600	+ 2900

TABLE 37-contd.

Working Proprietors and Partners

5.15 As many as 6517 private establishments (out of 7432 existing in urban areas in the district reported existence of one or more working proprietors and partners who were actively engaged in day-to-day operation of their concerns. Almost all (95.4 per cent) smaller private establishments (with 5-9 workers) reported existence of working proprietors and partners. Of the total employment of 28.1 thousand in them about 7.5 thousand or 26.7 percent were working proprietors and partners. Similar analysis in respect of private bigger establishments indicating that working proprietors and partners were actively engaged in 72.9 percent of total establishments and their proportion to total employment was 1 : 8.

5.16 The principal industries which were built up by individual entrepreneurship are given below. The data indicates the industries and fields which in the light of economic characteristics of urban area of the district provide scope for self-employment besides generating substantial paid employment.

Industries	Number of establishment	Employment	Number of working proprie- tors and partners
Rice, atta and flour	118	1469	231
Bakery products	60	1001	116
Edible fats and oils	87	996	165
Sweet-meat and condiments	133	855	180
Cotton weaving in powerloom	49	602	73
Cotton weaving in handloom	151	1254	159
Carpet and daries	294	2526	320
Hosiery and knitted fabrics	88	656	119
Embroidery and crepelace	51	290	66
Textile garments	505	3081	580
Wood and wooden products	194	1781	368
Printing and publishing	180	1584	261
Leather and leather products	242	3721	428
Terpentine, synthetic, resin and plastic	86	806	133
Smelting, refining and re-rolling of iron and steel	91	1212	145
Metal products such as tin cans	73	825	115
Sundry hardwares	143	3055	404
Agricultural implements and oil engines	106	985	176
Repairing and servicing of motor vehicles	205	1580	293
Whole sale and retail trading	2015	14354	4724
Transporting by motor vehicles	143	1412	316
Hotels and restaurants	381	2623	534

5.17 A study of occupational profile of working proprietors and partners revealed that majority of them have taken up administrative, managerial, clerical and sales functions. Only a small proportion was engaged in skilled and other work.

Occupation		umber of working oprietors and part - ers
Professional and Technical		23
Administrative and managerial		8646
Clerical and sales		1909
Production and related		798
Others		122
	Total	11498

5.18 An analysis of the educational attainment of the working proprietors and partners revealed that no relationship existed between the level of education and type of work performed by them. Data below show the educational profile of working proprietors and partners.

Level of education		Number	Percentage
Below Matriculation (including illiterate)		6644	57.8
Matriculation and above but below graduate		3096	26.9
Graduates and above but below post-graduate		1249	10.9
Post-graduates professional and Technical		363 146	3.1 1.3
	TOTAL	11498	100.0

CHAPTER VI

TRAINING AND EDUCATIONAL FACILITIES

6.1 There has been an alround expansion in the educational facilities in the district resulting in an increase in the number of new entrants to the employment market. There are 16 degree colleges, one college of agriculture, one college of medicine, 123 higher secondary schools, one Industrial Training Institute and one polytechnic. In addition to one university at Kanpur, there is one Indian Institute of Technology, one institute for sugar technology, one institute for oil technology which provide facilities both for higher education and research for different fields of technology.

6.2 Information about out-turn of matriculates, intermediate and graduates (arts and humanities) was collected from the Board of High School and Intermediate Education and Kanpur University etc. The table below indicates the out-turn of matriculates etc. for the years 1970 to 1972.

 TABLE 38

 Out-turn of matriculates, intermediate and graduates (arts and humanities)

		Out	-turn
Level of education	1970	1971	1972
Matriculates	17,322	18,341	21,653
Intermediates	8,595	8,913	10,784
Graduates (arts and humanities)	2,640	2,689	2,751

6.3 The out-turn of matriculates increased by 25.0 per cent during 1970-72 i.e. from 17.3 thousand to 21.7 thousand, while intermediates increased from 8.6 thousand in 1970 to 10.8 thousand in 1972 showing an increase of 25.5 per cent. However, the increase in the number of Graduates (arts and humanities) is only 4.2 per cent between 1970-72.

6.4 Information about the current and future trends of out-turn in respect of professional and technical education separately at certificate, diploma, graduate and post-graduate level (including doctorate) was collected from all the recognised colleges and training institutions in the district. In working out these estimates, the present intake capacity, admission targets set for the future as well as the wastage and stagnation, if any, at different levels of education were taken into consideration. The complete details about the number of educational institutions, intake capacity, minimum qualification for admission, duration of course, availability of scholarship stipend etc., actual out-turn in 1973 and likely out-turn during next five years etc., are presented in Appendix -IX(B). The table below indicates the likely out-turn during the next five years (1974-1979) at various levels of education:---

TABLE 39

0	ut-	turn.	from	inst	il	ut	tions	
---	-----	-------	------	------	----	----	-------	--

	Field of study	Likely out-turn in next five years (1974-1979)
	1	2
(a)	Doctorate level	322
	Science	146
	Agriculture .	45
	Engineering	131
(b)	Post-graduate level	20,045
	Science	4,230
	Agriculture	· 535
	Engineering and technology	727

1 . . . · 2 Medicine 333 Education 365 Arts and humanities (including commerce) 13,855 (c) Graduate level 19,875 Science 4,510 Agriculture 400 Engineering and technology 2,070 Medicine 1,000 Nursing 60 Education 7,565 Law 4,270 (d) Diploma 4,859 Engineering and technology 1,095 Medicine 3,323 Fellowship of National Institute of Sugar 45 Associateship of National Institute of Sugar 256 Industrial Fermentation in alcohol technology 140 (e) Certificate level 8,710 Medicine 270 Education 2,460 Instructors, engineering and vocational trades 400 Engineering trades 4,470 Draughtsman (Civil and Mechanical) 240 Electrician 260 Fitter 790 Mechanic-instrument 160 Mechanic-Radio & TV 130 Mechanic-motor 330 Mechanic-Refrigeration and air-conditioning 160 Machinist composite 210 Shaper and planner 120 Turner 440 Tool and die maker 110 Wireman 180 Moulder 100 Painter 100 Welder (gas and electric) 240 Sugar engineering and biology 190 Others 710 Vocational trades 1,110 Compositor-hand and proof reader 60 Book-binder 30 Printing machine operator 50 Stenography-Hindi 310 Stenography-English 320 Cutting and tailoring 240 Embroidery 100 GRAND TOTAL 53,811

TABLE 39-Contd.

(Refer Appendix-Appendix X Part B-Out-turn from educational institutions by level of education)

6.5 In addition to the out-turn from training institutions and colleges discussed above, persons are also being trained under Apprentices Act, 1961 and Employers' own training programme. The table below shows the number trained during 1973 and likely out-turn during next five years (1974-79):---

TABLE 40

Number trained and likely out-turn during 1974-79

Occupation	Number tra ing 1973	in c d dur-		Likely Ou five y e a	it-turn dur ars (1974-19	ring next 979)
	Under Appren- tices Act, 1961	Through Employ- ers own program- me	Total	Under Appren- tices Act, 1961	Through Employ- ers own program- me	Total
1	2	3	4	5	6	7
Draughtsman (Civil & Mech.)	9	••	9	46	••	46
Fitter	201 77	••	201 77	1349 477	12	1361
Turner Machinist	8	••	8	133	44	521
Shaper	4		4	23	••	133 23
Miller	6	••	6	52	14	66
Grinder	8	••	8	53	4	57
Planner	••	••	•:	2	••	2
Millwright	1 41	••	1	122	26	148
Electrician	2	••	41 2	262	••	262
Mechanic—Refrigeration Wireman	17	••	17		50	141
Lineman—Light and power	8		8	40	100	140
Steam turbine operator	••	• •		1	•••	140
Boiler attendant	6	••	 6	160	••	160
Welder	33	••	33	180	16	196
Moulder	12 5	••	12 5	114 103	••	114
Blacksmith Sheet metal worker	5 7	••	7	159	••	103
Fool and die maker		••		20		159 28
Pattern maker	1	••	1	5		20
Carpenter	6	••	6	99		9 9
lumber	2	••	2	10	••	10
fechanic precision instrument	12 27	••	12	65	••	65
Aechanic automobile		••	27	226 47	••	226
Achanic diesel	$\frac{1}{5}$	••	5	145	••	47
Aechanic textile machinery Doffer-cum-piecer	24		24	165	••	145 165
Veaver	86	••	86	420	••	420
enter	16	••	16	105	••	105
etter press machineman	3	••	3	30	••	30
ine-type operator	·. 2	••	••	3	••	3
ompositor	<u> </u>	••	2	29 11	••	29
ook binder ales assistant (general)	ï	••	ï	47	••	11 47
lerk (General)	17	38	55	206	210	416
ook-keeping and accountancy	••		••	45	21	66
tore-keeper	••	••	••	50	••	50
ashier	••	••	••	40	••	40
ricklayer	••	••	••	20 5	••	20
ook toor	ʻi	••	ĩ	19	••	5
teward—floor acker and confectioner		•••	••	3	••	19 3
ttendant/operator (chemical)	••	••	••	3	••	3
fechanical engineer	••	3	3	••		
fetallurgist	• • •	18	18	••	3	3
harmacist	• •	91 32	91 32	••	455	455
aboratory assistant (pharmaceutical)	••	32 106	32 106	••	160 150	160
urse elephone operator	• •	52	52	••	150 200	150
g borer	••			••	4	200 4
lechanic maintenance (chemical plant)	••	2	$\frac{1}{2}$	••	10	10
ineman-telephone and telegraph	••	55	55	••	100	100
lechanic-telephone	••	••	••	••	100	100
techame-telephone						
coname—crephone	648	397		<u> </u>		

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6.6 It will be observed from the above table that a large number of persons are likely to be trained during 1974-1979 under Apprentices Act, 1961 in such trades as fitter (1349); turner (477); machinist (133); millwright (122) electrician (262); boiler attendant (160); welder(180); moulder (114); blacksmith (103); sheet metal worker(159); mechanic-automobile (226); mechanic-textile machinery (145); doffer-cum-piecer (165); weaver (420); tender (105) and clerk-general (206). Through employer's own training programme sizeable number of persons are likely to be trained during 1974-1979 in trades such as wireman (50); lineman light and power (100); clerk-general (210); pharmacist (455); laboratory assistantpharmaceutical (160); nurse (150); telephone operator (200); mechanic-telephone (100) and linemantelephone and telegraph (100). The employers' own training programme is being organised mainly to meet their own-requirements.

6.7 Besides the training programmes discussed above, the Government of India, Ministry of Education also provides stipendary apprenticeship training to diploma and degree holders in engineering and technology. The following table indicates the branch of engineering, the number trained and likely to be trained.

Field of Engineering		Number trained during 1973	
Graduates			
Electrical engineering		50	235
Aeronautical engineering		28	140
Mechanical engineering		9	81
Automobile engineering		3	15
Diploma			
Mechanical engineering		23	88
Electrical engineering		21	95
Electronic		3	5
Automobile engineering		12	60
	TOTAL	149	719

TABLE 41 Stipendary training programme

Sub. National Systems Unit, National Institute of Educational Planning and Aministration 17-B. SriAurbindo Marg. New Delbi 41000 DOC. No.

CHAPTER VII

MODIFICATIONS IN THE TRAINING AND APPRENTICESHIP PROGRAMME

7.1 Craftsmen and apprenticeship training programmes which are in operation for over a decade are organised with a view to meeting the changing requirements of crafts men in the context of rapid technological developments. There are 356 Industrial Training Institutes all over the country with a seating capacity of 1.53 lakhs both in the engineering and non-engineering trades. As a result of concerted drive undertaken to implement the Apprentices Act after the announcement of the 20 point economic programme by the Prime Minister, the implementation position rose to 1.21 lakhs seats utilised against 1.28 lakhs seats located on 31st January 1976 showing a substantial increase of 17.8 thousand located seats and 51.70 thousand seats utilised compared to the earlier position. The coverage of the Apprentices Act has also been extended to 15 new fields bringing the total number of industries specified under the Act to 216. In addition, 57 special fields in engineering and technology have also been designated under the Act for the graduate and technician apprentices. Besides, 41 additional trades for trade apprentices have been designated in addition to the existing number of 62, bringing the total of number of trades designated to 103 for trades apprentices under the Apprentices Act. All these training programmes envisaged constant improvements of industrial skills required for development of industries and proper utilisation of human resources.

7.2 In the second and third five year plans, rapid industrialisation with particular emphasis on the development of basic and heavy industries was made. We achieved a spectacular advance in the field of basic and engineering industries during the last 15 years of economic progress in the country. The production of essential industrial materials has recorded big increase and the country is now producing anything from a pin to the sophisticated aeroplanes and electronic equipment. Hence, it is imperative that our country requires increasingly greater number of highly skilled men to keep pace with our rapidly expanding economy and changing technology. On the industrial front, the skilled craftsmen transforms the ideas and diagrams of the scientist and engineer into the finished product. He builds, operates, installs and services the machines in factories, workshops, offices etc. He helps to build and maintain our giant industrial plants, automic installations and performs many varied jobs essential to the smooth running of the industrial establishments.

7 3 The degree of skill possessed by the individual worker determine the quality of the job that he is able to perform for the industry. Equally important is the necessity to keep training practices abreast with the changing needs of the industry. One of the most far reaching aspects of expanding economy has been an acceleration of technical know-how with industrial technology. As a result major developments are being telescoped into comparatively short time. This acceleration has brought about an unprecedented and sustained demand for skills. Any substantial change within the foreseeable future in the need for developing and improving the skills of our workers will be more and complex. This demands the development and change in our Industrial Training and Apprenticeship Programme with more orientation towards employment, In view of this, the skill needs would have to be further graded to find out exact type of training which would need to be started for meeting specific requirements of the industries at the area level. The Planning Commission, therefore, recommended that future manpower requirement need to be assessed both qualitatively and quantitatively. The Expert Sub-Group which evaluated Area Skill Survey was also of the same opinion and recommended that a more quantitative assessment of manpower needs by occupations, as has been done under Area Skill Surveys, would not be enough and a technical survey to assess the precise degree of skill under each occupation also would be necessary.

- 7.4 The main objectives of the qualitative survey are to study the following aspects :--
 - (a) Adequacy of the existing training/apprenticeship training programme and the extent to which they fulfil the needs of the area;
 - (b) Occupations in which training/apprenticeship programme will need to be provided in the light of the future manpower needs;
 - (c) Extent to which there is an excess of training facilities in the context of area needs;
 - (d) Modifications needed in the existing training curriculum to meet the requirements; and
 - (e) Directions in which quality of training will need to be upgraded to achieve improvements in the required skills.

7.5 Existing industries employing 100 or more skilled workers and the trade in which seven or more workers are employed were considered for conducting qualitative skill survey. The establishments where the number of workers currently engaged under any trade is less than seven but sizeable requirement (seven and above) during the next five years have been anticipated were also approached for furnishing the required information. Data from all such emerging establishments who anticipated additional requirements of at least seven in a trade were also covered. In all 75 establishments were selected for qualitative skill survey. In this connection an appeal was sent to all establishments from the District Magistrate who was also the Chairman of the Advisory Group on Area Skill Survey along with a copy of the questionnaire for extending all the cooperation and assistance to the survey teams by way of furnishing the required information. A letter was also sent to all the Central Government establishments by the Regional Directors of Apprenticeship Training, Northern Zone giving objective of the survey and seeking cooperation needed in the matter.

7.6 Two survey teams were formed, each team consisting of one technical person from the office of Regional Director of Apprenticeship, Kanpur and the other from the Area Skill Survey office. The survey teams visited the establishments/industries and discussed with the Personnel Managers/Labour Officers/Training Officers for obtaining the necessary data. During the visits to different departments of the establishments, a minute study of job content of the workers, putting questions to them for ascertaining their background such as educational qualifications, technical training, if any etc. was made. This enabled the survey teams to find out the new skills, the type of machine being used etc.

7.7 Questionnaire.—Some of the important items on which the information was collected were particulars regarding the type of industries, total number of workers engaged by categories, recruitment procedure adopted, training activities in the industries, detailed job specification (Appendix-I).

7.8 **Coverage.**—Out of 75 establishments surveyed, the information could be obtained in respect of 61. The categorywise details of the establishments who furnished the information are as under :—

			Public Sector	Private Sector	Total
1.	Large		28	16	44
	Medium		7	5	12
3.	Small		••	5	5
		Total	35	26	61

Another 14 establishments were also visited by the survey teams but the information could not be collected due to certain administrative and other reasons.

7.9 **Categories of workers.**—The effective way of determining the degree/level of skill of a worker in a particular trade/occupation is to study the nature of work one is doing. This can be done by job analysis and studying the element of skill performance by the workers in the industries. Some general system for classifying the work which facilitate the assessment of degree/level of work from the critical element of job is the way for assessing the degree of skill. Unfortunately majority of industries in this area have not attempted to classify the skill level in a scientific way. Still many of them are having their own classification on the basis of wages paid to the workers. The wage structure in many cases are however based on the job performance. Another difficulty experienced in assessing the skill level was that the degree/level of skill varied from industry to industry for the same trade/occupation so also the wage structure. The job specifications in respect of some of the trades which differ from industry to industry are given in Appendix-XI.

7.10 The following table indicates the categorisation of workers as existed in the industries separately for public and private sector and large, medium & small scale industries.

Percentage of workers to total

		Public	Private	Total
. Large		79	88	83
2. Medium		83	61	77
3. Small		••	64	64
	Total	79	87	83

The workers constituted 83 per cent of the total employees in the establishments studied under the Qualitative Skill Survey. The percentage of workers to total was higher (87) in the private sector than that in the public sector (79). This was also true for larger establishments. In case of establishments classified as medium the position was however reverse.

7.11 Selection procedure.—The survey reveals that the highly skilled workers are selected from the skilled categories working in the same establishment on the basis of their seniority and their performance. Skilled workers are also selected from the establishments except for those special skills where such skills do not exist in the industries in the semi-skilled category. For semi-skilled category, the craftsmen trained at the Industrial Training Institutes and under Apprenticeship programme are absorbed in certain percentages and that too in few trades only, while the rest are filled from the unskilled categories of workers informally trained in the establishments. In the old industries the general practice is to recruit unskilled persons as usual workers and attach them with the skilled and semi-skilled categories of workers and to promote them as semi-skilled in due course whenever the vacancies arise. In case of new establishments coming up, this practice is however not being followed and trained persons are recruited directly.

7.12 **Existing training facilities and staff engaged on training.**—35 establishments are imparting 'on the job' training as per Apprentices Act 1961. In most of the cases there is a dearth of staff who coordinate the training work of the apprentices on the shop floor. The skills are mostly repetitive and the possibilities of covering various operations are difficult in most of the production shops. There is also lack of coordination between the training department and the shop floor staff. Facilities for all the job training to upgrade and update the workers to the required level are available only in three establishments. The refresher courses are conducted for duration varying from 12 to 16 weeks. Particularly in telephone industries, courses for telephone mechanic/telephone operator are conducting as 'on the job' training for a period of three months before placing the persons on the job. In so far as integrated training is concerned this is available only in one establishment for two and a half years' duration.

				No. of	establishr	nents hav	ving			
Activi ty	Engi- neer	Section- al head		Super- visor	Charge- man	Highly skilled worker (maistry	Trg. mana- ger y)	Trg. Super- intende		In- struc- tors
1	2	3	4	5	6	7	8	9	10	11
Production of hydrogenated oil	1	1		1	•••	1		••	•••	
Cotton spinning & weaving in mills	9	9	••	8	••	9	••	••	••	••
Jute spinning & weaving	1	1		1	••	1	••	••		
Wool spinning & weaving	1	1		1		1	••	••	••	
Fertilisers		1	••	••	••		••	1		1
Synthetic & plastic products	1	1	1	2		2			••	••
Iron & steel		1		1	••	1		• • •		
Iron & steel furniture			1		1	• •		••	• •	•
Sundry hardwares		1		2	1					
Agricultural implements			1	••	1	••	••	••	••	
Electronic equipments		1	1	1				•••	••	
Repairing and servicing of motor vehicles	••	1	1	· 1	1	1		••	1	1
Repairing and maintenance of aeroplanes and aero-engines	••			••	••	••	1	••	1	1
Construction & maintenance of buil- dings	• ·	••	1	••	••	••	1	••	••	••
Generation & transmission of elec- tric energy	1	2	••	2	2	••	••	••	••	••
Distribution of electric energy	2	••	1	1	1	1		••	•••	••
Purification & distribution of water	1			••	1	••		••	• •	
Telephone communication	• •	•••	••	1	••	1	••	1	••	••
Other Central Govt. establishments	••		3	3	2	3				

7.13 The above training programmes are being conducted both in engineering and non-engineering trades. The type of training and staff available in the various establishments is as indicated below :—

7.14 Only six establishments (all in the public sector) are having separate training centres. Most of the establishments conduct on the job training on the existing production machine and they prefer to recruit ITI passed trainees wherever possible for the purpose so that they need not have to create basic training facilities in their own establishments.

Adequacy of existing training facilities

7.15 The following table gives the number of trained personnel required, the number of trainees likely to be available and the gap between the two during the next five years :---

TABLE 42

Inadequacy/Surplus in training facilities

Trade/Occupation	Manpower required upto 1979	No. likely to be trained upto 1979	Inade- quacy of training facilities	Surplus of train- ing faci- lities
Moulder	295	214	81	
Carpenter	590	179	411	••
Blacksmith	493	103	390	
Machinist	1199	343	856	
Turner	838	961		123
Miller	137	66	71	
Grinder	283	117	166	
Fitter	1565	2151	••	586
Mechanic-automobile	338	556		218
Millwright	156	148	8	
Electrician	542	522	20	••
Mechanic-Radio & TV	30	130	••	100
Wireman (light & power)	126	321		195
Lineman (light & power)	90	140	••	50
Plumber	16	90	••	74
Welder (Gas & Electric)	518	436	82	
Sheetmetal worker	72	239		167
Boiler attendant	81	160		79
Mechanic-textile machinery	162	145	17	
Mechanic-Refrigeration & air-conditioning	28	160	••	132
Draughtsman (Civil & Mechanical)	190	286		96

7.16 Basic aim of our craftsmen training scheme and apprenticeship training programme is to help the industries to increase productivity by providing necessary trained workers. Craftsmen trained in the Industrial Training Institute are adequate to the extent of providing basic engineering skills. They are mostly absorbed as semi-skilled workers. Even apprentices trained under the apprenticeship programme are mostly taken under the semi-skilled category. The survey has further revealed that most of the industries in Kanpur are old where there is lack of modern machinery. Only a few industries which have come up very recently are modern and equipped with latest machines.

Diversification of existing training programmes

7.17 The survey teams made an effort to identify changes in skill needs by studying, observing the job performance and also by personal discussions with the employers and employees. The modifications necessary to be made in the curriculum of different designated trades is as indicated below. This infomation could, however, be collected in respect of few trades only as most of the establishments could not offer any specific suggestions regarding the changes in curriculum for improvement of training as they are not well familiar with the syllabi of Industrial Training Institute and other training programmes :--

1. Electrician :

.

- 1. Syllabus should include High Voltage Circuits, Connection & Maintenance of High Voltage equipments.
- 2. More practice may be given in the connection of rectifiers and transformers.
- 3. A short course on automobile wiring testing and maintenance of auto electrical equipments may be introduced.

2. Wireman

4. Plumber

Moulder

3.

- 4. More practice on DC & AC winding may be given to the trainees or a course on Armature Winding be introduced.
- 5. In general all-round improvement in Theoretical & Practical training is needed but more emphasis may be given to practical training.
- 1. Practical training on overhead line work, connection and fault location etc. may be included in the syllabus.
- 2. Syllabus should also include High Voltage equipment and their connections & maintenance.
- 3. Workshop Calculation & Science Syllabus may be revised so as to suit the intake qualification.
- 4. More emphasis may be given for practical training during the institutional training.
- 5. A separate course may be introduced on cable jointing after preliminary training in Wireman course.

Preparation of Plastic Moulds, Polishing of plastic moulds and plastic moulding also should be included in the Moulders syllabus.

Fitting of water supply and drainage pipe should be included in the syllabus. Also practical training in these skills can be with city water supply system so as to receive actual practice by the trainees.

5. Regarding all other trades more emphasis should be given for practical training.

- (1) Winder/Reeler
- (2) Sizer (Front and back)
- (3) Warper (Front and back)
- (4) Drawer
- (5) Knitter
- (6) Sam

7.19 Further in view of the diversified needs of changing industrial occupations it is felt that few new trades also need to be introduced at the Industrial Training Institutes are included in the Aprrenticeship Programme for which there is likely to be enough demand in the area in the near future. The occupations in which training programme need to be provided are :--

- (1) Telephone Mechanic
- (2) Telephone Operator
- (3) Pump Driver/Attendant
- (4) Armature winder
- (5) Pipe fitter (water works)
- (6) Electrical Fitter

7.20 The demand for a particular skill may arise either due to technological development and or due to the coming up of new type of industries who may come forward with special skill requirements. Any change in the industrial skill need to be reflected in the training programme so that the trained persons could get the jobs. If industry needs specialised skill due to change in machine, techniques or production process, it need to be notified immediately so that necessary modifications in the existing training programme could be introduced in the Industrial Training Institutes to train persons which require specialised skills. This is, however, cannot be done without the active cooperation of the industries. Besides it would also be essential to ascertain the likely manpower requirements of various industries at the area level at frequent intervals so as to diversify the training programme according to the needs of the area.

CHAPTER VIII

UNEMPLOYMENT TRENDS

- 1. Regional Employment Exchange, Kanpur,
- 2. University Employment Information & Guidance Bureau, Kanpur,
- 3. Special Employment Exchange for physically handicapped, Kanpur, and
- 4. Kanpur residents registered with Professional & Executive Employment Office, Lucknow.

While studying the unemployment trends, it is to be borne in mind that as these Employment Exchanges are located in urban areas, all the rural employment seekers may not be registered. Even among urban employment seekers, all unemployed persons may not necessarily be registered with the Employment Exchanges, as the registration is voluntary and it is not obligatory on the part of employment seekers to get themselves registered with the Employment Exchanges for seeking employment assistance. On the other hand, employed persons may also seek registration with the employment exchange in the hope of getting better jobs.

8.2 **Persons registered.**—The number of applicants pending on the Live Register of the four employment exchanges mentioned above increased from 43.4 thousand in June 1969 to 115.6 thousand in June, 1973 (thereby showing an increase of 166%) and became more than two and half times. However, this number came down to 97.0 thousand in June 1974. During the period June 1969-74, the number of educated applicants more than doubled while the women educated applicants nearly became six times.

8.3 The following table shows the year-wise trend in the Live Register from 1969 to 1974 :---

TABLE 43

Year ending June	Total No.	of applicants on Register	the Live	No. of educated applicants included in the Total (Matriculates & above)				
	Men	Women	Total	Men	Women	Total		
1969	41,338	2, 06 6	43,404	12,846	443	13,289		
1970	43,234	2,574	45,808	15,458	716	16,174		
1971	53,553	3,364	56,917	18,310	1,313	19,623		
1972	93,400	3,986	97,386	28,763	1,646	30,409		
1973	110,519	5,099	1,15,618	23,287	•2,297	25,584		
1974	91,525	5,461	96,986	23,056	2,513	28,569		

Total and educated number of job seekers on the Live Register

Educational attainment of job-seekers

8.4 Analysis of the job seekers by their educational attainment reveals that 30.6 per cent of employment seekers pending on the Live Register at the end of June 1969, were matriculates and above. As against this, the proportion of such persons at the end of June 1974, was 29.5 per cent as could be seen from the table given below :—

TABLE 44

Educated	applicants	on	the	Live	Register
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Category	June 1969			June 1974			
Cullegoly	Men	Women	Total	Men	Women	Total	
1	2	3	4	5	6	7	
(I) EDUCATED APPLICANTS	12846	443	13289 (30.6)	26056	2513	2856 9 (29 .5)	
(a) Matriculates	9140	185	9325 (21.5)	12945	720	13665 (14.1)	
(b) Higher Secondary (including inter- mediates)	1693	74	1767 (4.1)	7427	679	8106 (8.4)	
(c) Graduates	1664	131	1795	4880	810	5690	
Arts	780	70	850	2505	690	3195	
Science	532	25	557	1582	114	169	
Commerce	241	••	241	489	••	489	
Engineering	74	2	7 6	118	••	118	
Medical	20	2	22	50	5	55	
Law	1	1	2	10		10	
Education	14	30	44	5 9	1	60	
(d) Post-Graduates	349	53	402 (0.9)	804	304	1108 (1.1)	
Arts	80	33	113	274	28 8	562	
Science	145	9	154	349	6	355	
Commerce	50		50	6 6	• •	66	
Agriculture	21	1	22	73		73	
Education	4	••	4	2		2	
Others	49	10	59	40	10	50	
Ion-matriculates including illiterates	28492	1623	$\begin{array}{c} 30115 \\ (69.4) \end{array}$	65469	2948	68417 (70.5)	
Total :	41,388	2066	43404 (100.0)	91525	5461	96986 (100.0)	

8.5 The number of educated applicants on the live register which was 13,289 at the end of June 1969 became more than double and numbered 28,569 at the end of June 1974. Of the total educated applicants, 70.2% in 1969 and 47.2% in 1974 were matriculates. As against this, the percentage of those who had passed Higher Secondary Examination (including intermediates), and were pending on the live register, was 13.3% in June 1969 and 28.4% in June 1974. The percentage of graduates was 13.5% and 19.9% in 1969 and 1974 respectively. The proportion of post-graduates amongst the educated persons which was 3% in June 1969 rose to 3.9% in June 1974.

8.6 All the categories of applicants have shown manifold increases during the period from June 1969 to June 1974. While the number of matriculates increased from 9,325 at the end of June 1969 to 13,665 at the end of June 1974, (thereby showing an increase of 46.5%), the number of those who had passed Higher Secondary Examination or Intermediate, rose significantly from 1,767 in June 1969 to 8,106 in June 1974. The number of graduates increased from 1,795 at the end of June 1969 to 5,690 at the end of June 1974. Among graduates, the number of medical graduates increased from 22 to 55, while that in Arts and Science increased from 850 to 3,195 and 557 to 1,696 respectively. The number of Commerce Graduates almost became double and numbered 489 in 1974 as compared to 241 in 1969. The number of post-graduates also increased sharply from 402 at the end of June 1969 to 1,108 at the end of June 1974. The increases were noticeable in Arts, Science and Agriculture faculties. The number of post-graduates in Commerce almost remained static.

8.7 The number of educated women applicants on the Live Register increased significantly from 443 at the end of June 1969 to 2,513 at the end of June 1974. The number of matriculate women applicants which was 185 at the end of June 1969 became 720 at the end of June 1974. The increase was also very significant for those who had completed Intermediate or Higher Secondary Examination and were seeking employment through the Employment Exchanges. The number of graduate women applicants had increased from 131 to 810 during the period under review. The increases were significant particularly in case of Arts and Science faculties. The number of women graduate applicants in education faculty, however, decreased from 30 in 1969 to 1 in 1974. The number of Post-graduate women applicants also recorded a significant incease from 53 at the end of June 1969 to 304 at the end of June 1974. The number of post-graduate women applicants in Arts increased from 33 to 288, while it decreased from 9 to 6 in Science.

Type of work sought by employment seekers

8.8 The following table shows type of work sought by job-seekers on the Live Register of Employment Exchanges functioning in Kanpur district:—

LABLE 45	FABLE	45
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Type of work sought by employment seekers

			June 1974			
Type of work sought	<u> </u>		,			
· · · · · · · · · · · · · · · · · · ·	Men	Women	Total	Men	Women	Total
Professional & Technical	902	453	1355 (3.1)	1581	951	2532 (2.6)
(i) Teachers	102	202	304	723	778	1501
(ii) Others	800	251	1051	858	173	1031
Administrative, Executive & Managerial	26		26 (0.1)	20	••	20
Clerical & related work	792	18	810 (1.9)	2154	245	2399 (2.5)
Sales work	9		9	10	••	10
Service	183	232	415 (1.0)	125	163	288 (0.3)
Farming, fishing, hunting & related work	27		27 (0.1)	24		24
Production & related work and Transport equipment operation	6343	1	$6344 \\ (14.6)$	7488	99	7587 (7.8)
(i) Production & related work	6089	1	6090	6486	99	6585
(ii) Transport equipment operator	254		254	1002		1002
Unskilled	2413	127	2540 (5.8)	3799	472	4271 (4.4)
Freshers (New entrants to the employment market)	30643	1235	31878 (73.4)	76324	3531	79855 (82.4)
(i) Matriculates	7618	150	7768	15456	946	16402
& above but below graduates					ti dang	· ·;
(ii) Graduates & above	1403	71	1474	4571	600	51 7 1
(iii) Others	21622	1014	22636	56297	1985	58282
Total :	41338	2066	43404 (100.0)	91525	5461	96986 (100.0)

(Figures in brackets indicate percentage to total)

8.9 The proportion of job-seekers to total decreased in all categories in 1974 as compared to 1969, except clerical & related workers and freshers in whose case it rose from 1.9% and 73.4% in 1969 to 2.5% and 82.4% in 1974 respectively.

8.10 During the period 1969-1974, the number of women job-seekers recorded manifold increases in all the categories except those available for services. The increases were, however, more marked in clerical & related workers, unskilled and freshers (new entrants to the labour market without any previous work experience or vocational training). The number of women work seekers for production & related jobs increased from 1 in 1969 to 99 in 1974, while those seeking professional and technical work rose from 453 to 951 during the same period. It may be of interest to note that not even a single women worker is available on the Live Register of employment exchanges for employment as administrative, executive and managerial, sales, farming fishing, hunting & related work and transport equipment operator. 8.11 More than four-fifth of the registrants in 1974 were freshers without any work experience or vocational training, followed by those seeking production & related work and transport equipment operation (7.8%); unskilled work (4.4%); professional technical work (2.6%) and clerical & related work (2.5%). Women job seekers were either freshers or seeking job of teaching, unskilled and clerical & related work. Only a few of them were available in the occupations like service and production & related work.

8.12 **Unemployed persons.**—Of the three principal sources of statistics on unemployment (i.e. Decennial Population Census, National Sample Survey and Employment Exchange Statistics), the statistics of persons registered with Employment Exchanges for employment assistance provide regular series and the data are available with the minimum time-lag. The number of applicants on the Live Register of Employment Exchanges cannot, however, be taken to reflect the exact level of unemployment due to the well-known limitations discussed earlier.

8.13 The Live Register figures, therefore, need to be suitably corrected for these limitations before it could be used as an indicator of the level of unemployment. Unfortunately, the correction factors to eliminate all those who are employed, students etc. are not available. In view of this, it is not possible to have a precise estimate of the level of unemployment on the basis of employment exchange statistics.

8.14 A complete count of unemployed persons is outside the purview of a survey of this nature. Even the number of unemployed persons in rural areas originally collected by obtaining information from village elders, officials and other knowledgeable persons has not been found to be a realistic one. An attempt was, therefore, made in rural areas to obtain data about educated unemployed (matriculates & above) and skilled artisans possessing recognised certificate during the course of construction of the frame of establishments with the 1-4 workers (including self-employed) in respect of 10% of the villages selected in the sample for the collection of village schedule (AS-V-Appendix I). The number of unemployed persons (educated & skilled artisans) in rural areas as revealed by the Area Skill Survey is given in the following table :—

TABLE 46

Educated	unemployed	in	the	rural	areas	
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(Figures in brackets indicate percentage to total)

	·		
Type of job looking for	No. of un- employed persons	No. registered with the Employ- ment Exchange	Percentage of registrant to total
Teachers	533 (4.8)	177	33.2
(i) J Primary	462 (4.2)	156	33.7
(ii) Higher Secondary	71 (0.6)	21	29.5
Physicians & Surgeons	21 (0.2)	7	33.3
Allopathic	7		
Ayurvedic	7	••	
Homoeopathic	7	7	100.0
Patwari	14 (0.1)	• •	
Production & related work & transport equipment operation	276 (2.5)	127	46.0
Moulder	7	••	
Weaver-handloom	14	7	50.0
Tailors	14	14	100.0
Fitters	149	85	57.0
Mechanic—Auto	14	14	100.00
MechanicTractor	7	••	10.4
Electricians	36	7	19.4
Drivers-truck	35	••	
Freshers	10270 (92.4)	1160	11.3
Matriculates	6771 (60.9)	399	5.9
Intermediates	2463 (22.2)	356	14.4
Graduates & post-graduates			
Arts	740 (6.6)	278	37.5
Science	162 (1.5)	85	52.5
Commerce	49 (0.4)	42	85.7
Agriculture	85 (0. 8)		••
Total	11114 (100.0)	1471	13.2

8.15 The over-whelming majority (92.4%) of the rural educated unemployed were freshers without any work experience or vocational training, which includes 60.9% matriculates, 22.2% intermediates and 9.3% graduates (including post-graduates). In the last category, the concentration of unemployed persons was in Arts faculty, followed by Science, Agriculture and Commerce. 4.8% of the unemployed persons in rural areas were seeking teaching jobs (mainly at the primary level) and 2.5% for production & related work and transport equipment operation.

8.16 Only 13% of the unemployed were registered with Employment Exchanges for employment assistance. The proportion of persons registered with Employment Exchanges to total unemployed in rural areas varied from 11.3% for freshers (without any previous work experience or vocational training) to 100.0% for tailors and auto-mechanics. The other categories for which atleast half of the unemployed were registered at the Employment Exchanges were—handloom weavers; fitters and science & commerce graduates (including post-graduates).

8.17 The data about the duration of rural unemployed (educated and skilled artisans) has revealed that more than four-fifth (83.9 per cent) were unemployed for more than one year, 14.1 per cent between six and twelve months and the remaining 2.0 per cent for the last six months only.

TABLE 47

Educated unemployed in the rural areas by duration

Type of job looking for	No. of	unemployed	inemployed persons by duration		
	Upto six months	6—12 months	More than 12 months	Total	
Teachers		129	404	533	
(i) Primary		103	35 9	462	
(ii) Higher Secondary	••	26	45	71	
Physicians & Surgeons			21	21	
			7-	. 7	
Allopathic		. 	7	7	
Ayurvedic Homoeopathic		••	7	7,	
Patwari	7	••	7	14	
Production & related workers and transport equipment operators	• ••	24	252	276	
Moulder	••	••	7	7	
Moulder Weaver-handloom			14	14	
Weaver-handloom Tailors		7	7	14	
		15	134	149	
Fitters	••		14	14	
Mechanic—auto		2	5	7	
Mechanic-tractor			36	3 6	
Electricians Driver—truck	••		35	35	
Freshers	215	1419	8636	10270	
	181	935	5655	6771	
Matriculates	18	244	2201	2463	
Intermediates	10				
Graduates & post-graduates		190	550	740	
Arts	 16	41	105	162	
Science		9	40	49	
Commerce	••	••	85	85	
Agriculture	•••				
Total :	222	1572	93 20	11114	

CHAPTER IX

EMPLOYMENT POTENTIAL

9.1 As a part of the survey, discussions were held with the eminent persons including economists, statisticians, industrialists and employers' associations in order to threw light on aspects of employment potential i.e. scope for employment opportunities that could be generated in the light of economic characteristics and development of the area. Necessary information was collected in a specially designed questionnaire. (A. S. IX-Appendix-I). The industries which can be set up with the available resources in the district are contained in the table below along with the approximate number of persons that can be absorbed.

TABLE 48

Employment potential—Industry-wise

Description of Industry	Employment potential	Percentage to total
Production of fruit products such as jam, jelly, sauce and canning & preservation of fruits	82	0.5
Cotton spinning & weaving in mills	7335	45.6
Manufacturing of pulp & paper products	425	2.6
Currying, canning & finishing of hides & skins, & preparation of finished leather	2300	14.3
Manufacturing of all kinds of rubber products from natural or synthetic rubber	2750	17.1
Manufacturing of basic industrial chemicals such as acids, alkalies	965	6.0
Manufacturing of other chemical products including inedible oils and fats	1785	11.1
Manúfacturing and assembling of machine tools	450	2.8
Total	16092	100.0

From the above table it will be seen that the cotton textile industry can provide employment to 7,235 persons followed by rubber industry (2,750) and leather industry (2,200). The following are the further details of the industrywise employment potential in respect of some important industries :----

- (i) Cotton spinning & weaving in mills—Textile is undoubtedly an important traditional industry in this district and has unquestionable bearing of its industrial economy, considering its great employment potential, and the socio-economic contribution that it makes in the lives of the people. 14 out of the 36 cotton textile mills in U.P. State are located in this district. The mills in this district account for half of the spinning and fourfifths of the weaving capacity and over four-fifths of the mill cloth output in Uttar Pradesh. Considering the favourable position, there is a scope for setting up 15 new mills in this district. In order to augment the processing capacity of the existing units, out of the proposed three processing houses, one processing house can be established at Kanpur. This industry can provide employment easily to 7,335 persons.
- (ii) Leather & leather goods—Considering the availability of hides and skins in this district, there is a considerable scope for starting new units, diversifying and modernising the existing leather tanning units for manufacturing of finished leather. 12 new units can be set up in this district providing employment to the tune of 2,300 persons.
- (iii) Manufacturing of rubber products—The growth of the market for rubber products is directly linked with the increase in population and with the development of infrastructure of the economy. Rise in the purchasing power of the people in rural areas is expected to induce many to possess their own vehicle, namely cycle. This will culminate into greater demand for cycle tyres, tubes and a host of moulded goods that go with it. The increased allocation in our plan outlays on mass transportation and communication will spur the demand for tyres and tubes needed for trucks, buses etc. The green revolution and the stress on mechanised farming will generate more demand for tyres and tubes for tractors and tailors. In view of the growing demand for rubber products, 4 new units can easily be set up to meet the demand and provide employment to the tube of 2,750.

- (iv) Manufacturing of basic industrial chemicals including inedible oils and fats—The development of heavy chemical industry has been alluding the State specially because it has not been able to offer any important basic raw material. When the pipe line from Barauni to Kanpur was laid to bring Naptha, it saw the starting of the Indian Explosives Ltd., Kanpur. Another development that is taking place is the establishment of oil refinery at Mathura which is expected to be commissioned by 1976 with an initial capacity to handle six million tonnes of oil. It will offer considerable scope for the establishment of down stream products in the heavy chemicals field as follows: —
 - (a) Olefins (Ethylene)
 - (b) Acrylonitrite
 - (c) Synthetic rubber
 - (d) Polythene
 - (e) Ethylene Glycol
 - (f) Polypropylene
 - (g) Acrylic fibre
 - (h) Detergent alkylate

In this district 25 new industries can be set-up for the manufacture of chemical and chemical based products taking advantage of its central location. It can provide employment to the tune of 2,750 persons.

9.2 In the following table, an attempt has been made to study the occupation-wise employment potential of the area.

TABLE 49

Employment potential occupation-wise

Occupational details	Employment potential	Percentage to total
Professional, Technical & related workers	425	2.6
Administrative, Executive & Managerial workers	50	0.3
Clerical & related workers	667	4.2
Production & related workers, transport equipment operators and labourers	14950	92.9
Total	16092	100.0

9.3 From the above table it will be seen that Kanpur area can provide sizeable employment to production process and related workers, transport equipment operators and labourers to the tune of 14,950 persons, which is 92.9 per cent of the total employment potential. This is followed by clerical & related workers (667) and professional, technical & related workers (425).

CHAPTER X

RECOMMENDATIONS FOR ACTION

10.1 As a result of the findings of this survey, it is felt that certain actions are indicated infields like job development, expansion of small enterprises and industries, promotion of self-employment in rural areas, reorientation of training and apprenticeship programmes, conduct of further studies and rendition of effective career advice. These are discussed below :--

A. JOB DEVELOPMENI

10.2 The process of job development which forms an integral part of the Employment Exchange Service involves selective placement service in both employers as well as qualified applicants. Although this work had so far been undertaken by the local employment officers, special job development officers are now being gradually appointed to undertake this important work. One of the essential pre-requisites of a successful programme of job development is to have advance knowledge of prospective manpower needs. The area skill survey has revealed information about industries, sectors and other projects which are expecting sizeable manpower needs in the coming years. It would, therefore, be necessary for the Employment Service personnel to establish contacts with employers pertaining to such fields (refer chart below) with a view to obtaining precise information about such aspects as responsibilities and duties of jobs, skill or training requirements, terms and conditions of service, likely dates when jobs are excepted to come up etc. The next step in the process would be to examine how tar the employers needs could be met from amongst those registered with the local employment exchange. In this regard the need for circulating the jobs to other exchange areas or the need for improving/modifying current training apprenticeship programmes may also have to be examined.

Fields requiring job development	Important categories of personnel	
Manufacturing		
Rice, atta, flour	Grain millers	
Bakery products	Bakers, salesmen	
Edible fats & oils	Salesmen, oil expellerman, filter press operator	
Cotton spinning & weaving in mills	Jobbers, spinners, piecers, doffers, reelers, warper & sizers, weavers	
Cotton weaving in powerloom	Weaver powerloom	
Cotton weaving in handloom	Weaver handloom	
Carpet & daries	Winders, carpet & dari weavers	
Textile garments	Master cutter (garments), tailors, presser	
Sawing & planing of wood	Wood-sawyer-machine wood treater	
Printing & publishing	Compositors, job printers, lino operator, type caster, printing pressman, proof readers	
Currying & canning of hides & skins	Flesher, de-hairers, hide & skin setters, leather curriers, leather glazers, tanners	
Shoes & leather foot-wear	Shoe makers, closers - shoe upper, pattern makers - shoe, cutters	
Basic industrial chemicals	Pressman, Cookers & roasters, filter & separator operators, still & reactor operators, acid plant operators	
Medicines, pharmaceuticals & cosmetics	Chemical engineers, pharmacists chemists, ampoule fillers, ampoule sealers, packers	
Bricks & tiles	Bricks & tiles moulder - kilnman, clerks	

Fields requiring job development	Important categories of personnel
Smelting, refining & re-rolling of iron & steel	Mechanical engineers, furnace operators, rolling mill operators, moulders, wire drawers, blacksmiths, ham- mermen, turners, machine tool operators, fitters electri- cians, wiremen and welders.
Iron & steel furniture	Clerks, watchmen, fitters, sheet metal workers, welders
Metal products such as tin cans	Machinists, turners, fitters, sheet metal workers, tin- smith, welders
Sundry hardwares	Clerks, watchmen, moulders, wiredrawers, blacksmith, powerhammer operators, machinists, turners, grinders, fitters and welders
Agricultural implements & oil engines	Mechanical engineers, clerks, machinists, turners, fitters
Repairing & servicing of motor vehicles	Automobile engineers, accountants, office superinten- dents, office assistants, accounts clerks, clerks watchmen, carpenters, blacksmith, hammermen, turners, gear cutters, foremen, motor vehicle repairing, motor ve- hicle machanics, fitters automobile electricians, welders, dent removers
Electricity, gas, water & sanitary services	
Generation & transmission of electric energy	Electrical engineers, draughtsmen electrical, techni- cians-electrical engineering, lineman, electricians, clerks accountants
Trade & Commerce	
Wholesale & retail trading	Salesmen, accounts clerks
Banking	Accountants, clerical supervisors, clerks, cashiers
Transport, storage & communication	
Transporting by motor vehicles	Drivers, conductors, booking clerks, traffic inspectors, mechanic motor vehicles
Telephone communications	Clerks, telephone operators, telephone mechanics, line- men - telephone
Services	
Public services in Government departments	Clerks, typists, stenographers, draughtsmen
Educational services	Teachers, clerks
Public health & medical services	Physicians & surgeons, nurses, midwives & health visitors, vaccinators, dressers
Hotels & restaurants	Cooks, bearers, waiters

B. FIELDS FOR INDIVIDUAL ENTREPRENEURSHIP

10.3 The survey has revealed that in the light of economic characteristic and employment market conditions of the area, several individuals or a group of individuals have been able to build up and nurture enterprises which have not only provided productive avenues for self-employment to active proprietors & partners, sizeable wage employment was also created by such enterprises. It is felt that the undermentioned fields have considerable potential for future expansion and promotion of direct as well as indirect employment opportunities in the area :---

Fields

Rice, atta, flour Baker products Edible fats & oils Sweet meat & condiments

Cotton weaving in handloom Cotton weaving in powerloom Carpets & daries Hosiery & knitted fabrics Embroidery & crepe lace Textile garments Wood & wooden products Printing & publishing Leather & leather products Terpentine, synthetic, resin & plastic Bricks & tiles Smelting, refining & re-rolling of iron & steel Metal products such as tin cans Sundry hardwares Agricultural implements & oil engines Repairing & servicing of motor vehicles Wholesale & retail trading Transporting by motor vehicles

Hotels & restaurants

10.4 In order to motivate potential entrepreneurs, following measures may be taken up by the concerning agencies and departments :--

- (i) Dissemination of information by employment exchanges, industries, departments and other organisations.
- (ii) Identification of unemployeds with a potential for entrepreneurship and with requisite background.
- (iii) Establishment of consultancy services which will undertake preparation of project reports and handle matters connected with completion of procedures and formalties for setting up of enterprises.
- (iv) Mobilisation of financial resources through banking and other financial institutions on easy terms.
- (v) Arranging raw materials and other requisites.
- (vi) Development of marketing facilities.

C. REORIENTATION OF TRAINING AND APPRENTICESHIP PROGRAMME

10.5 The draft Fifth Five Year Plan has envisaged that the requirements of craftsmen might appropriately be assessed at the area level. This is so beacuse 'the heterogenity of craftsmen skills' the diverse sources of their supply, lack of uniformity in the duration, content and level of training make the estimation of demand for craftsmen difficult. This survey at the area level has brought out an assessment of craftsmen needs and actions could be initiated on the following lines for reorienting training and apprenticeship programme.

(i) Upgrading of skills

Due to modern technological changes which are gradually creeping in the industries, it may be necessary to develop higher skills in various trades. Actions are, therefore, needed for providing opportunities for re-training and instituting refresher courses to develop higher skills to work on new type of machinery.

(ii) Strengthening of training and apprenticeship

The survey has revealed that in respect of occupations mentioned below, there is a need for strengthening the existing training or apprenticeship facilities with a view to meet future demands :--

Moulder Carpenter Blacksmith Machinist Miller Grinder Welder (Gas & Electric)

(iii) Modifications in the curriculum of different designated trades

The modifications necessary to be made in the curriculum of different designated trades so as to meet the needs of the local employers is as indicated below :---

(a) Electrician

- (1) Syllabus should include High-Voltage Circuits, connection & maintenance of high-voltage equipments.
- (2) More practice may be given in the connection of rectifiers and transformers.
- (3) A short course on automobile wiring testing and maintenance of auto electrical equipments may be introduced.
- (4) More practice on DC & AC winding may be given to the trainees or a course on Armature Winding may be introduced.
- (5) In general all round improvement in theoretical and practical training is needed but more emphasis may be given to practical training.

(b) Wireman

- (1) Practical training on over head line work, connection and fault location etc. may be included in the syllabus.
- (2) Syllabus should also include high voltage equipment and their connections & maintenance.
- (3) Workshop calculation & science syllabus may be revised so as to suit the intake qualifications.
- (4) More emphasis may be given for practical training during the institutional training
- (5) A separate course may be introduced on cable jointing after preliminary training in Wireman Course.
- (c) Moulder

Preparation of plastic moulds, polishing of plastic moulds, and plasting moulding also should be included in the Moulders syllabus.

(d) Plumber

Fitting of water supply and drainage pipe should be included in the syllabus. Also practical training in these skills can be with city water supply system so as to receive actual practice by the trainees.

(e) Other trades

Regarding all other trades more emphasis should be given for practical training.

(iv) New trades to be designated under Craftsmen Training Scheme/Apprenticeship Training Programme:

As Kanpur is predominantly textile area it is felt that the following more trades in the textile group may be brought under the Apprenticeship Programme :

- (1) Winder/Reeler
- (2) Sizer (front and back)
- (3) Warper (front and back)
- (4) Drawer
- (5) Knitter
- (7) Sam

- In view of the diversified needs of changing industrial occupations, the following new trades also need to be introduced at the Industrial Training Institute or included in the Apprentice hip Training Programme for which there is likely to be enough demand in the area in the near future :
 - (1) Telephone Mechanic
 - (2) Telephone Operator
 - (3) Pump Driver/Attendant
 - (4) Armature Winder
 - (5) Pipe Fitter (water works)
 - (6) Electrical Fitter

D. FUTURE STUDY

10.6 Since the present survey is a pioneer study of its type and cannot hope to encompass all aspects, few suggestions are put forward which require further investigation/study :

- (i) The first aspect requiring study in respect of assessing as to what extent the industry was able to utilise the craftsmen presently being turned out by the training institutions and if such trained personnel were unable to meet the skill requirements, in what aspects the training programmes should be improved and reoriented. In this connection a study to find out whether formal apprenticeship programmes need modernisation to meet the demands for new skills and occupations would seem to be important.
- (ii) The second aspect for study would be to undertake repeat survey of the district with a view to assessing the implementation of the findings of this survey particularly in respect of the expansion plans on the one hand and of setting up of new industries in the area on the other. The repeat survey may also bring out data on the removal of factors hindering expansion or fuller utilisation of installed capacity. Such a survey could be taken at an interval of 5 years.

E. VOCATIONAL GUIDANCE AND CAREER ADVICE

10.7 The primary functions of University Employment Information & Guidance Bureau and Vocational Guidance units at major Employment Exchanges is to organise individual and group guidance programmes in order to canalise youths and unemployeds to channel, where employment opportunities exist or are expected to grow up in the near future. Effective function of the V.G. units and university bureaux has however been undermined due to lack of precise data about likely manpower needs of the area by skills. V.G. staff has, therefore, been rendering advice on vague notions about prospective employment opportunities and not on hard facts. The following information thrown up by Area Skill Surveys regarding the manpower needs of the area by various occupations during the next five years can, therefore be of immense value in rendering effective V.G. and career advice service :---

- (1) Fitter
- (2) Turner
- (3) Machinist
- (4) Miller
- (5) Grinder
- (6) Moulder
- (7) Blacksmith
- (8) Sheet metal workers
- (9) Welder (Gas & Electric)
- (10) Electricians
- (11) Lineman (light & power)
- (12) Wireman (light & power)
- (13) Carpenter
- (14) Plumber
- (15) Mechanic Radio & TV
- (16) Millwright
- (17) Boiler attendant

- (18) Mechanic textile machinery
- (19) Mechanic Refrigeration & air conditioning
- (20) Mechanic automobile
- (21) Draftsman (Civil & Mechanical)

10.8 "Let self employment and not wage paid employment be your aim" is a slogan for solving the problems of employment as it is not possible to provide wage paid employment to all. Information about avenues of self employment in rural areas need, therefore, to be disseminated to the unemployed by Vocational Guidance-Units functioning at the Employment Exchanges to pursuade them to take up the various fields in which scope for self employment exist. Some of the important fields in which unemployed persons can be diverted to take up self employment are :--

- (1) Dairy farming & milk selling
- (2) Spinning and weaving
- (3) Poultry farming
- (4) Carpentry and wood work
- (5) Retail selling
- (6) Nursery and vegetable cultivating
- (7) Soap making
- (8) Tanning and seasoning of leather
- (9) Blacksmithy
- (10) Piggery and sheep rearing
- (11) Tailoring
- (12) Oil expelling
- (13) Brick laying
- (14) Shoe making and repairing
- (15) Repairing and servicing of diesel engines and agricultural implements
- (16) Basket making
- (17) Khandsari and gur making
- (18) Pottery
- (19) Laundrying, dyeing and bleaching
- (20) Bidi making
- (21) Fishing and boating
- (22) Food preservation
- (23) Food and beverages processing
- (24) Sheet metal working
- (25) Bicycle repairing
- (26) Candle making, and
- (27) Match making

10.9 While trained and experienced craftsmen would be needed to take up such work as carpentry blacksmithy, tailoring, repairing and servicing of diesel engines and agricultural implements, it will also be necessary to organise short terms training courses particularly in the fields of dairy farming, poultry piggery & sheep rearing, food & beverages processing, soap making, tanning & seasoning of leather, food preservation and match making and providing incentives to the unemployed for taking up self employment in the rural areas.

F. DEVELOPMENT OF INDUSTRIES

10.10 The survey has revealed that shortage of raw material, finance, etc., were some of the important factors hindering current production and expansion of industrial establishments. Avenues for self employment can be developed only by providing financial assistance to the unemployed persons, besides developing adequate transport facilities, marketing, etc. This information can be of immense value to the industries department in opening new industries in the area.

G. Employment Market Information Programme

10.11 The employment data thrown up by the EMI programme is considered as an important barometer of the level of changes in employment in organised sector of the country. The survey has, however, revealed that the frame of establishments which forms the basis for collecting the data from the employers suffers from lack of comprehensiveness. The gap in employers register maintained under the EMI programme and as built up under the Area Skill Survey Unit is as follows :--

		Number of establishments under		
		Area Skill Survey	Employment Market Infor- mation Pro- gramme	
A.	Public Sector	509	386	
B.	Private Sector	7782	2314	
	(i) Bigger establishments employing 10 or more workers	2670	1509	
	(ii) Smaller establishment employing 5-9 workers	5112	805	
	Grand Total (A+B)	8291	2700	

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APPENDICES

APPENDIX I

GOVERNMENT OF INDIA

A, S. 1 Confidential

MINISTRY OF LABOUR (D.G.E. & T.)

AREA SKILL SURVEY

Employers' Schedule

(Information reported on this form will be treated as strictly confidential and will not be revealed to any unauthorised person, nor published in such a manner that data relating to individual establishments can be identified).

Name & address of Establishment

State District

Urban/Rural

Year of establishment

Telephone No.

Sector (Public/Private)

Nature of Economic Activity

- I. Total no. of employees on pay rolls (including unskilled as well as proprietor-owners and working partners etc.) as at the end of 31-3-1974.
- II. If the establishment is engaged in seasonal activity, approximate dates of commencement and closure of season be indicated: Commencement Closure

III. TRAINING

Training/Apprenticeship programmes within the establishment: (Information for trainees under the Apprentices Act 1961 should be given separately).

Occupational	Descrip- tion of	Entry quali	fications	Duration	In take capacity	No. tr	ained during	g 1973	No. of per-
code	trade	Academic	Other		capacity	Men	Women	Total	sons likely to be trained in the next 5 years

IV. PERSONS EMPLOYED

(a) No. of persons employed by occupation & sex (This will include working proprietors and partners etc.)

Occ. Code No.	Occupation	No. of regular employees on roll at the end -		lar employees o end of 31-3-1974		In case of seasonal of persons employe	ed on seasonal
		of correspond- ing quarter 7 years ago 31-3-1967	Men	Women	Total	Max. no. of seasonal employ- ees on any one day in the season	Minimum
1	2	3	4	5	6	7	8

Occ. Code No.	Type of work performed	Qualifications	Numbe
(1)	(2)	(3)	(4

.

V. EXPANSION

- (a) Expansion plans including opening of Branch/Units and sister or new concerns etc. within the area :--
- (b) Factors hindering existing production, expansion and full utilisation of installed capacity :---

S.No	Factor	Remarks
0.	Licence to set-up new units :	
1.	Foreign exchange/import licence	
2.	Raw material	
3.	Land acquisition	
4.	Non-availability of skills	
5.	Shrinkage in demand	
6.		
7.		
8.		

(c) Assuming that the above limiting factors are over-come and expansion programme materialises, indicate future man-power demands :--

Occ.	Occupation	Educational	Additional manpower demands	
Code No.		General	Technical	- during next 5 years 31-3-1979
1	2	3	4	5

VI. MANPOWER SHORTAGES :

(Indicate skills in which shortage of work-people was experienced during last one year).

Occ. Code No.	Occupation	Qualifications	Extent of shortage (indi- cate No.) State whether of a persistent or casual nature	Steps taken to overcome short- ages (such as Institutional Training or Apprenticeship Programme) Suggestion for future action		Interviewer's assess- ment about reasons for shortages**
<u>1</u>	2	3	4	5	6	7

**(1) Low wages offered, (2) Housing difficulties, (3) Unduly high qualifications and experience prescribed, (4) Commutation difficulties, (5) Dearth of suitable applicants available locally, (6) Future prospect, (7) Migration to other areas, (8) No migration from other areas.

Name & Signature of Investigating Officer Name & Signature of person providing information

Date:

Date:

AS - II Confidential

GOVERNMENT OF INDIA MINISTRY OF LABOUR (D.G.E. & T.)

Area skill survey

SCHEDULE FOR EMERGING ESTABLISHMENTS

(Information reported on this form will be treated as strictly confidential and will not be revealed to any unauthorised persons, nor published in such a manner that data relating to individual establishment can be identified).

Name of Employer:

Address :

State : District :

Urban/Rural :

Sector :

Telephone No.

Nature of Economic Activity :

I.C.L. Code :

- '1. (a) Date of start of construction stage :
 - (b) Likely date of commencement of Production/Activity :

II. Likely No. of persons to be employed (Including working Proprietors and Partners).

Occ. Code	Occupation	Educational rec	quirements	No. of persons including working Partners & Prop. likely to be
No.		General	Technical	employed during next 5 years
1	2	3	4	5

Name & Signature of Investigator/Officer	Name & persons p	Signature of roviding information	on	
Date:	Date:	.	ng d i	-

Confidential AS-III (Revised)

GOVERNMENT OF INDIA

MINISTRY OF LABOUR (D.G.E.&T.)

Area Skill Surveys

(Schedule for institutions imparting Professional and Technical Education)

1. Identification Particulars Name & Address of Institution:

> Name & Telephone No. of persons providing information:

State: District:

II. PARTICULARS OF PROFESSIONAL & TECHNICAL EDUCATION:

A. CERTIFICATE LEVEL.-Record separately for (i) Engineering trades, (ii) Vocational trades & (iii) Others.

	INTAKE							OUTTURN					
Sl. No.	Trade/ Cour- se	Dura- tion of cour- se	Month of comm- ence- ment of session	Quali- fica- tion for admi- ssion	Med- ium of se- lect- ion	No. of sea- ts	Fee	Scho- lar- ship/ sti- pend	1973 (Ac- tual)	Dur- ing next five years	Re- mar- ks		
1	2	3	4	5	6	7	8	9	10	11	12		

Important Instructions:

- (i) Indicate any new course proposed to be introduced during the next five years.
- (ii) Indicate whether recognised or unrecognised in remarks column.
- (iii) Out-turn from unrecognised institutions should not be recorded.

(iv) Information on stipend/scholarship in col. 9 should give details of amount paid per month, duration & basis of award etc.

B. DIPLOMA LEVEL.- Record separately for (i) Engineering, (ii) Technological, (iii) Medicine and (iv) others.

					INT	AKE				OUTTURI	N
SI. No.	Tra- de/ Cour- se	Dura- tion of cour- se	Month of comm- ence- ment	Quali- fica- tion for admis- sion	Method of selec- tion	No. of sea- ts	Fee	Scho- lar- ship/ Sti- pend	1973 (act- ual)	Du- ring next 5 years	Re- ks.
1	2	3	4	5	6	7	8	9	10	11	12

C. GRADUATE LEVEL.—Please list out courses or subjects of study under following sub-heads : (a) Engineering & Technology, (b) Medicine & Pharmacy, (c) Business Administration & Personnel Management, (d) Social & Labour Welfare, (e) Teaching, (f) Agriculture, Veterinary Science, Animal Husbandry & Dairying, (g) Other's excluding Arts & Humanities.

					INTAH	¢Ε				OUTTURN	I
Sl. No.	Tra- de/ Cour- se	Dura- tion of cour- se	Month of com- mence- ment of sess- sion	Quali- fica- tion for admis- sion	Meth- od of selec- tion	No. of sea- ts	Fee	Scho- lar- ship/ Sti- pend	1973 (act- ual)	During next 5 years	Re- marks
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.

D. POST-GRADUATE & DOCTORATE LEVEL.—Please list out courses or subjects of study separately under following sub-heads: (a) Engineering & Technology, (b) Medicine, (c) Business Administration & Personnel Management, (d) Social & Labour Welfare, (e) Teaching, (f) Science Viz., Physics, Chemistry, Botony, Zoology, Bio-chemistry, Biology, Geology, Mathematics, Statistics, Minerology, Oceanography, Pharmaceutical Chemistry & Allied subjects, (g) Agriculture, Veterinary Science, Animal Husbandry & Dairying & (h) All others including Arts and Humanities.

	-				INTA	KE				OUTTUR	N
Sl. No.	Tra- de/ Cour- se ³	Dura-J tion of cour- se	Month of com- mence- ment of ses- sion	Quali- fica- tion for admis- sion	Meth- od of selec- tion	No. of seats	Fee	Scho- lar- ship/ Sti- p e nd	1973 (act- ual)	Du- ring next 5 years	Re- marks
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.

Name & Signature of she Officer/ Investigator: Name & Signature of the Officer providing information.

Date:

Confidential AS-V

9.

GOVERNMENT OF INDIA

MINISTRY OF LABOUR (D.G.E. & T.)

Area Skill Surveys

Educated unemployment & channels of self-employment in Rural Areas

Name & Address of Block Development Office Population of Block Number of Villages in the Block Name of village selected for study.

2.

1.

Town District				State				
Occ.	fumber of educated unem Type of Work	Educational			of unemplo	oyment	No. regis-	Remarks
No.		level	sons seeking wh o letime work	Upto 6 mon- ths	6 to 12 months	More than 12 months	- tered with Emp. Exch.	

5.

6.

7.

8.

п.	Existing avenues of self-employment (other than agriculture in the village) :-	
П.	Existing avenues of self-employment (other than agriculture in the village) :-	

3.

4.

I.C.L. code No.	Type of Work	Occ. code No.	No. of persons enga- ged		No. of seasonal wor- kers		Difficulties faced & assistance needed
			Full time	Part time	Minimum	Maximum	
1.	2.	3.	4.	5.	6.	7.	8.

III. Additional opportunities for self-employment that could be created in the light of modernisation of agriculture, local produce & other resources & expanding need for maintenance & other services :---

ICL No.	Type of work		persons that could be	Type of assistance of facilities (Such as elec- tricity, loan, machinery, training, marketing etc.) needed if any
1.	2.	3.	4.	5.

Indicate sources from which information for Item III above has been collected:

Signature of the Investigating Officer/Incharge.

Date:

Government of India

MINISTRY OF LABOUR

(D.G.E.& T.)

Area Skill Surveys

Schedule for assessing impact of employment Generating Programmes viz. Rural Work Programme, Marginal Farmers and Agricultural Labour, Small Farmers Agency, Pilot Research Projects in Growth Centres, etc.

(Separate Schedules to be completed in respect of each scheme under each type of Programme).

 Description of Scheme operative within the District: Scheme: No. of Villages covered Names of villages

- 2. Total amount sanctioned and spent so far: (Total Amount sanctioned (Rs.) Amount spent so far).
- 3. (i) Date of commencement of work.(ii) Date of completion (of likely date of completion)
- 4. Wage Rates: (specify occupation/skill) Skilled Unskilled

5. Methods of execution of work.

- (i) Through Contractor
- (ii) Directly by the Department
- 6. Employment expected to be generated:

(a) Employment of a regular nature to be generated after completion of scheme/project/works (Maintenance Staff).

Wage rate

N.C.O. Code No.	Occupation	Approximate No.	N.C.O. Code No.	Occupation	Approximate No.
1.	2.	3.	1.	2.	3.

(b) Man-days of employment to be generated during the Construction phase of the Schemes/Projects/Works.

	Type of Employment	Number of man-days
	(i) Skilled	
	(ii) Unskilled.	
(a)	Type of workers for whom shortages were experie	nced in executing the work.
	Occupation	Number
		••••
(b)	How the above shortages were met or are propose	d to be met.

8. Other Remarks, if any.

Name and Signature of persons providing information.

Name and Signature of the investigating officer.

Date:

?. (a

Date.

Ćonfidentiaľ AS-VII

GOVERNMENT OF INDIA

MINISTRY OF LABOUR

(D.G.E. & T.)

Area Skill Surveys

(Employers: Schedule for Private Establishments having 5-9 Workers)

Name and address of Establishment:	State:	
Year of Establishment:	District:	
Nature of Economic Activity:	Urban/Rural.	
	······	

Occ. Code	Occupation	No. of regular emp- loyees on roll at the end of correspond-			No. of persons employed on seasonal basis in the - last session		
		ing quarter 7 years age (31-3-1967)	Men	Women	Total	Minimum	Maximum
1.	2.	3.	4.	5.	6.	7.	8,

II. No. of working proprietors & partners (included in column 6 of Item I).

Occ. Code	Type of Work peroformed	Qualification	Number
<u>1</u> .	2.	3.	4.

III. If the establishment is engaged in seasonal activity approximate dates of commencement and closure of season be indicated :

	Commencement			Closure
Name & Signature of Investigating Officer.	· .	·		Name & Signature of persons providing information.
Date:		ŀ		Date:
			64	

Ćonfidential AS-VIII

GOVERNMENT OF INDIA

MINISTRY OF LABOUR

(D.G.E. & T.)

Area Skill Surveys

Manpouer content of the development plans & other programme included in the Fifth Plan for the District of

A

1. Name of the Department:

2. Name(s) of the Office(s) located in the District:

3. Scheme-wise details of manpower contents:

Brief particulars of the scheme included in the	Oc	D and a sha			
Fifth Plan	Occupation		Remarks		
	Occupation	General	Technical	No. required by March 1979	
1.	2.	3.	4.	5.	6.

Signature of the Investigating Officer: Name & Signature of persons providing information

Date:

Date:

GOVERNMENT OF INDIA

MINISTRY OF LABOUR

(D.G.E. & T.)

Area Skill Surveys

Scope for employment opportunities that could be generated in the light of economic characteristics, availability of raw materials, traditional crafts of the area.

- 1. Name & address of the person whose views recorded:
- 2. Brief particulars of employment generating scheme that could be launched & the existing conditions of the industry:
- 3. Type of assistance or facilities (such as electricity, loan, machinery, training, etc. needed):
- 4. Approximate number of persons that could be provided employment (including self-employed) by March, 1979:

Occupation

Approximate No. of persons that could be absorbed.

- 5. Type of workers for whom shortage is likely to be experienced:
- 6. How the shortage is proposed to be met?
 - (a) If training facilities exist: suitability of trained personnel:
 - (b) Availability of trained personnel in the nearby area:
- 7. Reasons if known, for not taking up the scheme so far:
- 8. Ancillary industries/small units if any, that could be taken up due to the coming up of the proposed industry & the approximate No. of persons that could be absorbed by skill:

Occupation

Signature of the Officer with designation who has collected the information

Date:

Approximate No. of persons

Name & Signature of the persons providing information

Date:

PROFORMA 'A'

GOVERNMENT OF INDIA MINISTRY OF LABOUR (D.G.E. & T)

Area Skill Surveys

Proforma for collecting information under the Qualitative Skill Survey Programme :

A.	General information about the Establishment		
A.1	Name of the Establishment		
A.2	Address:		
A.3	Standard Industrial Classification Code No. Major Code No. Minor Code No.		
A.4	Type of Product.		
A.5	Nature of work : Piece work/Assembly/Mass Production/Serv	ricing	
A.6	Size of the Plant	Small/Mediu	m/Large
A.7	Sector	Public/Priva	te
A.8	Total Number of Persons Employed		
A.9	Total Number of Workers Employed (Categorisation)		
			Highly Skilled: Skilled:

PROFORMA 'B'

÷

Details regarding the selection Procedure being adopted for the recruitment of workers:

B.1 Selection Preference

 $\langle Indicate the order of preference and the approximate recruitment percentage against the following:—$

Semi-Skilled: Any other category:

By Direct recruitment of experienced workers.

By Direct recruitment of craftsmen from ITIs.

By direct recruitment of Apprentices trained under the Act.

By training under a formal training programme in the establishment.

.

Any other source.

- Whether any test is conducted for the selection purpose . If so, give details. **B.2**
- **B.3** Any other selection criteria.

- Details regarding Training Activities for Workers in the Establishment. C.
- Whether any formal/informal training is being imparted to the fresh recruits/existing workers in the establishment. **C.**1

Yes/No

C.2If yes, details of training being imparted in the establishment may be indicated in the following:

Sl. No.	Ty pe of Trg. (Tick-off)	Type of workers (Tick-off)	C stegory of Workers	Approximate intake	Period of Training
1,	On-th e- job	Existing Potential			
2.	Off-the-job	Existing Potential			
3.	Integrated	Existing Potential			

Details of training facilities available in the estab-lishment: C.3

- (a) Physical facilities (give details)
 - (i) Accommodation :
 - (ii) Equipment :..
- (b) Training Personnel (Category-wise details)
 - (i)
 - (ii)
 - (iii)
- Any other relevant information regarding the traning activities for workers. **G.4**

D. Information regarding the additional training needs:

PROFORMA 'D'

	·····			
Sl. No.	Occupation/ Trade in	Level	No. required to be trained during	Prescribed 1

Sl. No.	Occupation/ Trade in which trained	Level		ired to be d during	Prescri	bed Minimur per	n qualific rience	cations/Ex-	Reasons for increased demand of
	workers are needed by the Estt.		1975-77	1977-79	Educa- tional	Technical	Experi- ence	Jobs specifica- tions	the workers Technical Development
1	2	3	4	5	6	7	8	9	10

PROFORMA 'A'

No.	Occupation/Trade	Grade/Level	cribed job specificatio	fications in respect of			
			Skills	Knowledge	Other requirements, if any		
1	2	3	4	5	6		

E. Information regarding job specification prescribed.

REMARKS

Mention here the gist of discussions held with the employer regarding changes in the curricula etc., separately for each trade.

Name & Signature of the Officer Collecting information.

Name & Signature of the Officer providing information.

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12 -- 1 DGE & T/ND/77

Appendix II (Part A)

Distribution of Establishments by broad types-1971 Census

State/District/City		Total Rurai	(a) Govt. or Quasi-	Total No. of Estts.	Manufactu Servicing I	ring, Proce Istablishme		Trade or B			Other F	Establishn	nent
	•	Urban	Govt. (b) Private (c) Co-op- erative) Private) Co-op-	Registered Factories	Unregis- tered Fac- tories	House- hold In- dustries	Whole- sale	Retail	Others	Education- al Insti- tutions	Public Health Institu- tions	Others
1		2	3	4	5	6	7	8	9	10	11	12	13
	,	Total	A B C	4233 59306 249	23 691 8	45 11361 22	6700	5 2602 8	201 23653 33	$162 \\ 3245 \\ 12$	1877 702 30	268 1390 7	165 896 12
Total (A+B+C)				63788	722	11428	6700	2615	23887	3419	2609	1665	1074
		Rural	A B C	2354 20485 110	3 82 2	$\begin{array}{r}13\\2111\\7\end{array}$	4937 	4 105 4	52 7490 10	47 325 6	1406 183 13	153 385 1	67 486 6
Total (A+B+C)				22949	87	2131	4937	113	7552	378	1602	539	56
		Urban	A B C	1879 38821 139	20 609 6	32 9250 15	1763 	2497 4	149 16163 23	115 2920 6	471 519 17	115 1005 6	97 409 6
Total (A+B+C)				40839	635	92 97	1763	2502	16335	3041	1007	1126	51:

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Appendix II (Par	rt B)	ł
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Category	1 Person	2-4 Perso	2-4 Persons		5-9 Persons		10-19 Persons		49 sons		i0-59 sons
Industry Divisions	Units	Units	Persons emplo- yed	Units	Persons emplo- yed	Units	Persons emplo- yed	Units	Persons emplo- yed	Units	Persons emplo- yed
1	2	3	4	5	6	7	8	9	10	11	12
Manufacturing	7006	9265	23505	1654	10064	509	6136	218	6214	84	5178
Frade & Commerce	17255	11067	26683	1210	7228	260	3111	71	21 7 5	10	659
Others	7367	5318	13786	1230	7560	483	6000	285	7962	102	6728
Grand Total	31628	25650	63974	4094	24852	1252	15247	574	16351	196	12565

Industry-wise distribution of establishment by size of Employment, 1971, Census

Appendix-II (Part B)--(Concld.)

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Category	100- -1	crsons		()-299 rsons		()-499 rsons	500- -	Persons	Persons unspeci-		tal
Industry Divisions	Units	Persons emplo- yed	Units	Persons emplo- yed	Units	Persons emplo- yed	Units	Persons cmplo- yed	fied	Units	Persons emplo- yed
	13	14	15	16	17	18	19	20	21	22	23
Manufacturing	••	••	69	10247	5	1776	20	61809	20	18850	131935
Trade & Commerce	14	3295	••	••	••	••	••	••	34	29921	60406
Others	72	25308	••			••	••	••	160	15017	74711
Grand Total	86	28603	69	10247	5	1776	20	61809	214	63788	267052

Appendix III

	Age-	Tot	al Population		Total W	orker
	group	P	M	F	<u>м</u>	F
l	2	3	4	5	6	7
IOTAL	Total	2996232	1653494	1342738	841929	38259
	014	1244943	660278	584665	18814	1544
	15-19	261680	149542	112138	60522	2092
	2024	247965	134425	113540	100824	4059
	25-29	232781	126299	106482	117727	491
	30—39	385671	212677	172994	206856	9769
	40-49	288617	170274	118343	165906	7948
	50—59	179995	109742	69253	103789	4729
	60+	154882	89880	65002	67459	317
	A.N.S.	698	377	321	32	7
URAL	Total	1713901	925921	7 879 80	476142	2477
	014	747621	397454	350167	13862	128
	15-19	136018	77675	58343	33862	147
	20-24	124367	63452	60915	54269	242
	25-29	123493	64029	59464	61565	3060
	30—39	212960	112776	100184	110848	6244
	4049	159886	89590	70296	88168	500
	5059	106788	61901	44887	60035	309.
	60-+-	102144	58706	43438	48511	2180
	A.N.S.	624	338	286	22	9
RBAN	Total	1282331	727573	554 758	365787	3 462
	014	497322	262824	234498	4952	256
	15-19	125662	71867	53795	21660	620
	20-24	123598	70973	52625	46555	1630
	25-29	109288	62270	47018	56162	1853
	30-39	172711	99901	72810	96068	352.
	4049	128731	80684	48047	77738	294
	5059	72207	47841	24366	43754	1634
	· 60+	52 73 8	31174	21564	18948	99
	A.N.S.	74	39	35	10	4

Workers and non-workers according to main activitize classified by sex and Age group-1971 Census

	I	II		ш		ľ	v
, <u>М</u> -	F	M	F	,х. М	F	M	F
8	9	10	11	12	13	14	15
326204	7349	100489	14508	4842	206	213	9
7463	297	5134	764	658	33	12	• •
2 3573	277	11808	986	503	12	18	••
35102	527	12497	1557	511	7	32	••
39511	709	13128	1909	551	14	23	1
74343	1736	22886	3763	884 .	31	53	3
62469	1630	17054	2896	796	36	42	1
44790	1152	10712	1663	525	41	21	1
38936	1019	7268	969	413	31	12	3
17	2	2	1	1	1	••	••
318493	7193	95635	14054	3080	136	53	1
7280	288	4917	741	606	30	• •	••
23084	269	11261	954	383	11	3	••
34216	517	11891	1524	320	5	9	••
39014	705	12539	1870	329	9	8	
72668	1704	21821	3647	495	20	14	1
60807	1593	16189	2780	414	20	11	••
43661	1124	10163	1607	277	21	7	•.•
37747	• 991	6852	930	255	20	- 1	••
16	• 2	2	1	1	••	••	••
7711	156	4854	454	1762	70	160	8
183	. 9	217	23	52	3	12	•*•
489	8	547	32	120	1	15	•••
886	10	606	33	191	2	23	••
497	4	589	39	222	5	15	1
1675	32	1065	116	389	- 11	39	2
1662	37	865	116	382	16	31	1
1129	28	549	56	248	20	14	1
1189	28	416	39	158	11	11	3
1					1		

Appendix III-Contd.

Workers and non-workers according to main activities classified by Sex and Age group-1971 Census

V(A)		$\mathbf{V}(\mathbf{I})$	B)	VI		VII	
M	F	M	 F	<u>M</u>	F	 M	F
 16	17	18	19	20	21	22	23
 26503	1119	122429	1861	6780	86	88944	1450
767	84	1906	149	98	3	1205	22
2680	93	8514	168	407	14	6000	30
3850	103	16434	211	723	8	11761	82
3546	116	18311	239	980	10	12493	119
6011	266	30685	469	1937	25	2205 3	283
4683	232	27096	344	1445	14	17160	341
2858	122	14461	176	778	7	11136	292
2108	103	5019	104	410	4	7133	281
		3	1	2	1	3	••
11051	614	9337	890	2284	5	10755	187
259	63	328	104	28	••	161	2
931	55	1041	97	126	1	832	1
1330	50	1472	117	24 8	••	1404	9
1435	55	1454	141	3 30	••	1471	10
2560	143	2331	230	699	1	2759	34
2157	126	1519	127	479	2	1957	36
1354	62	758	+3	253	1	1237	48
1025	60	434	31	121	••	933	47
••	••	••	••	••	••	1	••
15452	505	113092	971	4496	81	78189	1263
50 8	21	1578	45	70	3	1044	20
1749	38	7473	71	281	13	5168	29
2520	53	14962	94	475	8	10357	73
2111	61	16857	98	650	10	11022	109
3451	123	28354	239	1238	24	19294	2 49
2526	106	25577	217	966	12	15203	305
1504	. 60	13703	133	525	6	9899	244
1083 .	43	4585	73	289	4	6200	234
	•••	3	1	2	1	2	

Appendix III—Contd. Workers and non-workers according to main activities classified by Sex and Age group—1971 Census

VI	П	IX		Х	Ξ
<u>м</u>	F	M	F	M	F
 24	25	26	27	28	29
 35122	222	130403	11429	811565	1304499
145	3	1426	189	641464	583121
1528	10	5491	507	89020	110041
3991	40	15923	1524	33601	109481
5963	51	23221	1747	8572	101567
10883	49	37121	3144	5821	163225
8115	-14	27046	2410	4368	110395
3577	19	14931	1256	5953	64524
920	6	5240	651	22421	61831
••	••	4	1	345	314
2773	10	22681	168 7	449779	76320
7	1	276	59	383592	34887
125		1076	89	38813	5686
355	3	3024	204	9183	5848
494	1	4491	269	2464	5640
871	2	6630	462	1928	9394
560	1	4075	316	1422	65 2 9
270	2	2055	187	1866	4179
91	••	1052	101	10195	4125
•••	••	2	••	316	283
32349	212	107722	9742	361786	54129
138	2	1150	130	257872	23424
1403	10	4415	418	50207	5317
3636	37	12899	1320	24418	5099
5469 _	50	18730	1478	6108	4516
10012	47	30491	2682	3893	6928
7 555	43	22971	2094	2946	4510
3307	17	12876	1069	4087	2273
829	6	4188	550	12226	2057
		2	1	29	3

Appendix III-Concld.

Workers and non-workers according to main activities classified by Sex and Age group-1971 Census.

Appendix IV

í ndustr y	1966 o	r Earlier		967 	19 	968 /	1	969 	19	170 	19	971 /	19 	972	19	973	, To	otal
	Estt.	Emp.	Estt.	Emp.	Estt.	Emp.	Estt.	Emp.	Estt.	Emp.	Estt.	Emp.	Estt.	Emp.	Estt.	Emp.	Estt.	Emp
Agriculture. Livestock	20	1107	1	54	3	18	5	33	6	124	3	61	4	22	4	27	46	144
Manufacturing	1725	98134	110	6912	387	3752	317	7479	381	4907	281	3284	347	3741	5 33	4324	4081	13253
Construction	24	3566	3	407	2	144		· •	3	213	3	392	6	335	8	446	49	550
Electricity, gas, water & sani- tary Services.	12	4896	2	1448	2	115		••	• •	••	••	••	5	335	4	146	25	6940
Trade & Commerce	1314	16610	67	630	185	1634	148	1073	182	128 8	134	1051	148	2376	187	1190	2 3 65	25852
Transport, Storage & Commu- nication.	75	13417	6	227	17	147	19	26 7	27	22 9	10	128	16	835	30	1726	200	16970
Services	881	67826	46	6070	111	1688	90	1 7 75	121	1408	59	683	88	1535	129	3215	1525	48200
Total	4051	205556	235	15748	707	7498	5 79	10627	720	8169	490	5599	614	9179	895	11074	8291	27345
Public	316	104738	25	7973	17	1215	22	4606	26	849	26	859	59	3883	27	4349	509	12847
Private (Bigger)	1580	87467	91	7042	198	3313	148	3561	183	4316	176	3019	152	2842	142	2446	2670	11400
Private (Smaller)	2155	13351	119	73 3	49 2	2970	409	2460	511	3004	288	1721	412	2454	726	4279	5112	3077

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Appendix V

Description of Occupation	Agri- culture, Live stock, fores- try and fishing etc.		Bakery produ- cts	Butter ghee, cheese	Edible fats & oils	Hydro- genera- ted oils (Vana- spati)		Beve- rages	Toba- cco produ- cts	Cotton spinn- ing & weaving in mills
1	2	3	4	5	6	7	8	9	10	
Physical Scientists					2	5				1
Physical Science Technicians	2			8		2	••	••	••	
Architects, Engineers, Technolo- logists and Surveyors		4		2	1	2	••	4	••.	139
Engineering Technicians	2 3	1		1	••	1	••	3		31
Aircraft and ships officers			••			••		••	••	••
Life Scientists	62				••	••	••	••		3
Life Science Technicians					••	••	••			••
Physicians and Surgeons (including Dental and Veterinary Surgeons)]	i	••			••	I	••	2		16
Nursing and other Medical and Health Technicians	286		••	1	••				••	2
Scientific, Medical & Technical Persons, other								••	••	••
Total:	373	5	••	12	3	11	•••	9	••	192
Mathematicians, Statisticians & related workers	4			••	••		••	2		10
Economists & related workers			••	••	••	••	••	••	••	5
Accountants, Auditors and related workers	8	8	6	2	11	1	2	4	4	19
Social Scientists and related wor- kers	••	1			1	••	••			40
Jurists	••	••	••	••	••		••			••
Teachers	••	••	••	••	••	••	••		••	13
Poets, Authors, Journalists and related workers	.,	••	••	••	••		••	·		
Sculptors, Painters, Photographers and related creative Artists		•••								1
Composers and Performing Artists	••	••		••	••	••	••	••		••
Professional workers, n.e.c.	3	1	1	2	••		••	••	••	9
Total	15	10	7	4	12	1	2	6	4	97

Statement showing the Occupational Distribution of employees in selected industries as on 31st March, 1974

13—1 DGE & T/ND/77

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			Арре	enaix v	-Contd	•				
1	2	3	4	5	6	7	8	9	10	11
Elected and legislative officials	·	••			•••	••				
Administrative and Executive officials Government & Local Bodies	191							• •		
Working Proprietors, Directors and Managers, wholesale and retail trade	• •		••	۰,		• •				
Directors and Managers, Financial Institutions	• •		• 11		••	••	•••			
Working Proprietors, Directors and Managers, Mining Construc- tion, Manufacturing and related concerns		329	132	9	177	5	181	69	64	182
Working Proprietors, Directors, Managers & related executives, Transport, Storage and commu- nication									•••	1
Working Proprietors, Directors and Managers other services	••	• •		••			••		•••	· •
Administrative, Executive and Managerial Workers, n.e.c.		••	••	••	••		••	••		••
Total	191	329	132	9	177	5	181	69	64	183
Clerical and other Supervisors	12	1	3	31	4	9	••	2	1	237
Village officials	3	••	• •				••			
Stenographers, Typists, Card and Tape punching operators	2	3	4		2	2		3	2	75
Book-keepers, Cashiers and related workers	2	112	5	7	42	1	1	8	8	33
Computing Machine Operators					••	••	••		••	6
Clerical and related workers	127	58	79	109	62	3 9	2	17	14	1699
Transport and Communication Supervisors				••		••				
Transport conductors and Guards		••	••	••			•••			
Mail Distributors and related Workers				1						
Telephone and Telegraph operators		1				••	••			4
	146	176	91	147	110	51	3	30	25	2054
Merchants and shopkeepers, whole- sale and retail trade									••	
	• •	••	••	••	••			1	7	4
Manufacture, Agents Technical Salesmen and Commer-	••	••	••	••	••	1	• •	1	•	
cial Travellers	••	••	••	••	••	••	••	••	••	1
Salesmen, Shop Assistants and related workers	4	8	31	2	10	••	84	7	7	7
Insurance, Real Estate, Securities and Business Service Salesmen and Auctioners	••	••	••				•••			••
Money Lenders and Pawn brokers		••	• •		••	••	••	••	••	••
Sales workers, n.e.c.	••	••	••		••	••	••	••		
Total	4	8	31	2	10	1	84	8	14	12

Appendix V—Contd.

		Ľ	ренина	• 00						
1	2	3	4	5	6	7	8	9	10	1
Hotel and Restaurants keepers	••		••		••	••	••			
House keepers, Matron and Stewards (Domestic and Institutional)			• •		•	••	••	•••		• •
Cooks, Waitors, Bartenders and Related Workers (Domestic and Institutional)					3		115	1	••	• •
Maids and other House keeping Service workers, n.e.c.	••		•••		•-				• -	
Building Caretakers	••	••		1		••	••		• •	
Launderers, Dry-cleaners and Pressers								••		
Hair Dressers, Barbers Beauticians and related workers									••	•
Protective Service workers	••	1		• ·	••	••	••	••	. ,	÷1
Service workers n.e.c.	••	••	••	••	••	••	• •	•••	••	
Total .		1		1	3	••	115	1	••	31
Farm Plantation, Dairy and other Managers and Supervisors	126		• •	19	• ••	••		••	••	
Cultivators	••			••	••	••	••	••	••	• •
Farmers other than Cultivators	45	••	••	••	••	••	••	• •	• •	• •
Plantation workers	••	••	••	••	••	••		••	••	•
Other Farm Workers	225	• •	1	138	3	••		•••	••	11
Forestry workers	6	••	••	••	••	••				• •
Hunters and related workers	••	••	••	••	••	••	••	••	••	••
Fishermen and related workers	••		••	• ·	••	••	••	• •	••	••
Total .	402		1	157	3	••	• •	••		11
Ainers, Quarrymen, Well Drillers										
and related workers Aetal Processors	••	••		•••		••	••	••	••	•• 66
Vood Preparation workers		11		••		••	••	•••	••	
themical processors and related workers	••				••	27		•••	••	 8
pinners, weavers, knitters, Dyers and related workers		••	••	••						32504
anners, Fellmongers and Pelt Dressers		••						••	••	
ood and Beverage Processors		783	618	6	3 25	243	428	•341	• .	
obacco preparers and Tobacco product makers		••	••	••	••	••		••	202	
ailors, Dress makers, Sewers, up- holsters and related workers				••				••		161
Total	•••	794	618	6	325	270	428	341	202	32739

Appendix V—Contd.

		1.1								
1	2	3	4	5	6	7	8	9	10	
Shoemakers and Leather goods makers	••		.,	••	2	•••	••	• •		71
Carpenters, Cabinet and related wood-workers		14			7	3	••	••	• "	148
Stone cutter and carvers		• ·	••		••	••	••	••	••	••
Blacksmiths, Tool makers and Ma- chine Tool operators		17			8	3	• •	2	••	534
Machinery, Fitters, Machine As- semblers and Precision Instru- ment Makers (Except Electri- cal).	7	22	13	26	22	24		8	• .	2470
Electrical, Fitters and related Ele- ctrical and Electrical workers.		7	6	3	4	14	••	6		357
Broadcasting Station and Sound Equipment Operators and Cine- ma Projectionists					•••	•••		••	••	
Plumbers, Welders, Sheet Metal and Structural Metal Preparers & Erectors	••	8		1	1	3		2	••	104
Jewellery and precious metal work- ers and metal engravers (except printing)	••	••	••		• •	••			••	36
Glass Formers, Potters and related workers	••	••	••	••		••		••	••	I
Total ·	7	68	19	30	4 4	47	••	18	••	3721
Rubber and plastic product makers	••	••	••	• •	1				•	••
Paper and paper board product makers				••	••	••	••	••	••	·
Printing and related workers	••	••	••	••	••	••	••	••	••	1
Painters	••	••	••	••	••	1	••	••	••	17
Production and related workers, n.e.c.		••		••	••		••		•••	6
Bricklayers and other construction workers	••	••		••	••	1	••	••	••	30
Stationery Engines and related equipment operators, oilers and greasers	13	18	1	12	22	36	••	60	••	1027
Material handling and related equipment operators		49	2 23	4	29	••	19	9	62	316
Transport equipment operators	16	7	25	28	4	1	10	9	10	42
Total	29	74	249	44	56	39	29	78	72	1439
Unskilled workers	279	323	25	118	473	128	13	76	17	2242

Description of Occupation	weaving	Cotton weaving in hand- loom	cordage,	spinn- ing	Wool spinn- ing and weav- ing in mills	Car- pcts and Darries	Hosi- ery and knitted fabrics	Textile gar- ments	Textile Miscel- laneous other than Hosiery & Car- pets
1	12	13	14	15	16	17	18	19	20
Physical Scientists			••			••		••	
Physical Science Technicians	••	••	••	••	8-8	••	••		••
Architects, Engineers, Technologists and Surveyors	•••	••	3	4	9		••	••	5
Engineering Technicians	••	••	••	••	3	••		••	15
Aircraft and Ships Officers	••	••	••	••	•••	••	••	••	••
Life Scientists	••	••	••	••	••	••	••	••	••
Life Science Technicians	••	••	••	••	13		••	••	••
Physicians and Surgeons (including Dental and Veterinary Surgeons)	•••	••	• •	1	7			••	7
Nursing and other Medical and Health Technicians	••	••	••	••	3	•••		1	5
Scientific, Medical and Technical Persons, other		· ••	••	••	••	••	•••	••	
	•••	••	3	5	35	••	••	1	32
Mathematicians, Statisticians and related workers	••	••		• •	1	••			•
Economists and related workers				••	••			••	
Accountants, Auditors and related workers	1	••	6	1	5	••	3	1	41
Social Scientists and related workers	••	•	••	2	6	••	••	••	2
Jutists	••		••			••		••	••
Teachers	••	••	••	••	21	••		••	
Poets, Authors, Journalists and related workers	••		••		••		•	••	••
Sculptors, Painters, Photographers and rela- ted creative Artists	••	••			••	••		••	••
Composers and performing Artists		••	••	••		••	••		••
Professional workers n.e.c.	••	••	••		••	••	••	••	••
	1		6	3	33		3	1	6

Appendix	V—Gontd.
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1	12	13	14	15	16	17	18	19	20
Elective and Legislative Officials		••	••					•••	••
Administrative and Executive Official Government and Local Bodies			••		••		•	••.	••
Working Proprietors, Doctors, and Managers wholesale and retail trade		• •				••	• ,		••
Directors and Managers Financial Institu- tions	•••	••				ı ' 	•••		
Working Proprietors, Directors and Mana- gers Mining, Construction, Manufac- turing and related concerns	78	160	80	15	15	320	123	590	121
Working Proprietors, Directors, Managers and related executives, Transport, Storage and communication		• •					••		
Working Proprietors, Directors & Managers other services		••		••		••	•••		••
Administrative, Executive and Managerial workers, n.e.c.	••		••	••			••		
	78	160	80	15	15	320	123	590	121
Ilerical and other Su ervisors	••	••	••	14	27		••	8	45
/illage officials	• •	••	••	••	••	••	••	••	••
tenographers, Typists and card and tape punching operators			2	3	33	••	1		4
look keepers, Cashiers and related workers	2	1	5	••	5	••	3	7	8
Computing Machine Operators		••	••	••	1	•••		••	
llerical and related workers	10	••	14	154	243	1	4	7	229
ransport and communication supervisors	••	••	••	••	••	••		••	••
ransport conductors and Guards			••	••		••		• •	••
fail Distributors and related workers	••	••	••	••	••	••	••	••	4
elephone and Telegraph Operators	••		••	••	1		••	••	•••
-	12	1	21	171	310	1	8	22	291
Ierchants and shopkeepers, wholesale and retail trade			••	••	••				
Ianufacturers Agents		••	• .	••	3		1		
Travellers		•••	••	••			••		
alesmen, Shop Assistants and related workers	1	1		3		••	4	13	15
nsurance, Real Estate, Securities and Business Serv ce Salesmen and Auctioneers	•••	••		•••		••		••	
Ioney Lenders and Pawn brokers	••	••	••		••		••		• •
ales workers, n.e.c.		••	••	••	••	••		•••	• ·
									_

	-	-							
1	12	· 1 3	14	15	16	17	18	19	20
Hotel and Restaurants keepers		•••	••		• •		••	••	• •
House Keepers, Matron and Stewards (Domestic and Institutional)	••	•••		••					• •
Cooks, Waiters, Bartenders and Related workers (Domestic and Institutional)	••	••			18		••	1	• •
Maids and other House keeping service workers n.e.c.	••	••	•••	•	1			••	
Building caretakers	•••								
Launderers, Dry-cleaners and Pressers		••					63	40	2
Hair Dressers, Barbers, Beauticians and related workers								••	
Protective Service Workers				1	1	••	••		16
Service Workers, n.e.c.	•••		••	••	••	••	••	••	• •
	••	••	••	1	20	••	63	41	18
Farm Plantation, Dairy and other Managers and Supervisors									
Cultivators		••						••	
Farmers other than Cultivators			••		• •	••	••	••	
Plantation workers	••				••		••	••	••
Other Farm Workers		••			4	••		1	2
Forestry workers		••	••	••				••	••
Hunters and related workers	••	••	••		••	••	••	••	
Fishermen and related workers	••	•••		••	••		••	••	
	••	••	••	••	4	••	••	1	-
Miners, Quarrymen, Well Drillers and									
related workers Metal Processors	••	••	··• 0	••	•••	••	••	••	••
Wood Preparation workers	••	••	2	••	3	••	••	••	••
Chemical processors and related workers	••	••	••	••	••	••		•••	••
pinners, weavers, knitters, Dyers and related workers	50 3	1092	461	3775	3139	2205	202	1	108
Canners, Fellmongers and Pelt Dressers	••				•••				
food and Beverage Processors				••			•	••	
Cobacco preparers and Tobacco product makers	••			••					
Cailors, Dress makers, Sewers, upholsterers and related workers	• •		••	6	218	••	223	2712	2319

1	12	13	14	15	16	17	18	19	20
Shoemakers and Leather goods makers	••	••	••	••	•••	••	••	••	42
Carpenters, Cabinet and related wood workers	••		1		25		••		14
Stone cutter and carvers	••	••	••	••	••	••	••	••	• •
Blacksmiths, Tool makers and Machine Tool Operators	••		5	11	44		••	3	40
Machinery, Fitters, Machine Assemblers and Precision Instrument Makers (Except Electrical).	7		15	133	294	••	1	1	35
Electrical, Fitters, and related Electrical and Electronic workers	2		1	4	16	••	••		86
Broadcasting Station and Sound Equipment Operators and Cinema Projectionists	••		••				••	••	• •
Plumbers, Welders, Sheet Metal and Struc- tural Metal Preparers and Erectors	••		••	2	6		••	2	14
Jewellery and precious metal workers and metal engravers (except printing)	••	•••	••	••		••		••	••
Glass Formers, Potters and related workers	••	••	••	••	••		••	••	••
	9	••	22	150	385		1	6	231
Rubber and plastic product makers	••	••	••			••		••	
Paper and paper board product makers	••	••	••	••	••	••	••		
Printing and related workers	••	••		••	••	••	••	••	1
Painters	••	••	••	2	2	••	••	••	4
Production and related workers, n.e.c.	••	••	••		••	••	••		8
Bricklayers and other construction workers	••	••	••	8	14			••	7
Stationary Engines and related equipment operators oilers & greasers	••		••	82	41		••	••	50
Matirial handling and related equipment operators oilers and grearers	1		42	7	12	•••	20	10	118
Transport equipment operators	••	••	••	6	12	••	1	••	25
	1	••	42	105	81	••	21	10	213
Unskilled workers	16	••	63	235	197	•••	20	12	560
Grand Total	621	1254	700	4469	4443	2526	669	3410	4416

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Physical Scientists <	Description of Occupation		Sawing and Planing of wood		paper board and paper products
Physical Scientists <					
Physical Science Technicans Architects, Engineers, Technologists and Surveyors Engineering Technicians Aircraft and ships officers Life Science Technicians Physicians and Surgeons (including Dental and Veterinary Surgeons) Nursing and other Medical and Health Technicians Scientific, Medical and Technical Persons, other Mathematicians, Statisticians and related workers Social Scientists and related workers Jurists Jurists Social Scientists and related workers	1		21	22	23
Architects, Engineers, Technologists and Surveyors . . . Engineering Technicians . . . Aircraft and ships officers . . . Life Scientists Life Science Technicians Physicians and Surgeons (including Dental and Veterinary Surgeons) Nursing and other Medical and Health Technicians Scientific, Medical and Technical Persons, other Mathematicians, Statisticians and related workers Mathematicians, Auditors and related workers Social Scientists and related workers Jurists Jurists 	Physical Scientists	-		••	••
Engineering Technicians Aircraft and ships officers Life Scientists Life Science Technicians Physicians and Surgeons (including Dental and Veterinary Surgeons) Nursing and other Medical and Health Technicians Scientific, Medical and Technical Persons, other Mathematicians, Statisticians and related workers Mathematicians, Statisticians and related workers Scial Scientists and related workers Jurists Scial Scientists and related workers Jurists Sculptors, Journalists and related workers Sculptors, Painters, Photographers and related creative Artists Composers and performing Artists	Physical Science Technicans		• •	••	••
Aircraft and ships officers	Architects, Engineers, Technologists and Surveyors		••		••
Life Sciencitists <td>Engineering Technicians</td> <td></td> <td></td> <td>••</td> <td>••</td>	Engineering Technicians			••	••
Life Science Technicians <td< td=""><td>Aircraft and ships officers</td><td></td><td>••</td><td>••</td><td>••</td></td<>	Aircraft and ships officers		••	••	••
Physicians and Surgeons (including Dental and Veterinary Surgeons)	Life Scientists		• ••	••	
Nursing and other Medical and Health Technicians	Life Science Technicians		••	••	••
Scientific, Medical and Technical Persons, other	Physicians and Surgeons (including Dental and Veterinary Surgeons)		••	••	••
	Nursing and other Medical and Health Technicians		••		
Mathematicians, Statisticians and related workers	Scientific, Medical and Technical Persons, other			••	• •
Mathematicians, Statisticians and related workers					
Economists and related workersAccountants, Auditors and related workers212Social Scientists and related workersJuristsTeachersPoets, Authors, Journalists and related workersSculptors, Painters, Photographers and related creative Artists1Composers and performing ArtistsProfess onal workers n.e.c			••	••	••
Economists and related workersAccountants, Auditors and related workers212Social Scientists and related workersJuristsTeachersPoets, Authors, Journalists and related workersSculptors, Painters, Photographers and related creative Artists1Composers and performing ArtistsProfess onal workers n.e.c					
Accountants, Auditors and related workers 2 1 2 Social Scientists and related workers Jurists Teachers Poets, Authors, Journalists and related workers Sculptors, Painters, Photographers and related creative Artists 1 Composers and performing Artists Profess onal workers n.e.c.	Mathematicians, Statisticians and related workers		••	••	••
Social Scientists and related workers </td <td>Economists and related workers</td> <td></td> <td></td> <td></td> <td>••</td>	Economists and related workers				••
Jurists <	Accountants, Auditors and related workers		2	1	2
Teachers	Social Scientists and related workers		• • •	••	••
Poets, Authors, Journalists and related workers	Jurists		••	9.zð	• • • •
Sculptors, Painters, Photographers and related creative Artists 1 Composers and performing Artists Profess onal workers n.e.c.	-	ан Ал ан		••	••
Composers and performing Artists	Poets, Authors, Journalists and related workers		• • •	••	••
Profess onal workers n.e.c.	Sculptors, Painters, Photographers and related creative Artists		••	1	••
Profess onal workers n.e.c.	Composers and performing Artists		••		• •
			••		••
			2	2	2

21 22 23 1 Elected and Legislative officials Administrative and Executive officials Government and Local Bodies .. Working proprietors, Directors and Managers wholesale and retail trade Director and Managers, Financial Institutions Working Proprietors, Directors and Managers Mining Construction Manufacturing and related 56 147 259 concerns. Working Proprietors, Directors, Managers and related executives Transport, Storage and communication Working Proprietors, Directors & Managers other services •• Administrative, Executive and Managerial workers, n.e.c. • • •• .. 259 147 56 5 Clerical and other Supervisors Village officials Stenographers, Typists and card and tape punching Operators 51 7 2 Book-keepers, Cashiers and related workers **Computing Machine Operators** ••• . . 2 4 Clerical and related workers 4 Transport and communication supervisors •• Transport conductors and Guards •• Mail Distributors and related workers • • • • •• **Telephone and Telegraph Operators** ••• . . 16 4 55 Merchants and shopkeepers, wholesale and retail trade ۰. . . 1 Manufacturers Agents 1 Technical Salesmen and Commercial Travellers 2 3 Salesmen, Shop Assistants and related workers • • Insurance, Real Estate, Securities and Business Service Salesmen and Auctioners ... 4 Money Lenders and Pawn brokers .. Sales workers, n.e.c. 3 5 3

Appendix V-Contd.

. 1	21	2 2	23
Hotel and Restaurant keepers	•••	••	
House Keepers, Matron and Stewards (Domestic and Institutional)			••
Cooks, Waitors, Bartenders and Related workers (Domestic and Institutional)	1	••	•
Maids and other House keeping service workers, n.e.c.		• •	
Building caretakers			
Launderers, Dry-cleaners and Pressers			
	••	••	• •
Hair Dressers, Barbers, Beauticians and related workers	••	•	••
Protective Service workers	••	• ,	••
Service Workers, n.e.c.		••	
	1	••	••
Farm Plantation, Dairy and other Managess and Supervisors	••	••	
Cultivators			
Farmers other than Cultivators		••	••
Plantation workers	••	••	
Other Farm workers		••	
Forestry workers			
Hunters and related workers	••	••	••
Fishermen and related workers		••	••
	•••		••
Miners, Quarrymen, Well Drillers and related workers		•••	····
Metal Processors			
Wood Preparation workers	520	••• 11	 89
Chemical processors and related workers		••	
Spinners, weavers, knitters, Dyers and related workers		••	
Fanners, Fellmongers and pelt dressers		•.	••
Food and Beverage Processors	5		
Fobacco preparers and Tobacco product makers	• ••	••	••
Tailors, Dress makers, Sewers, upholsteres and related worker			
	5 2 5	11	89

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1	21	22	23
Shoemakers and leather goods makers	•	••	••
Carpenters, Cabinet and related wood workers	125	458	
Stone cutter and carbers	a 🔥	••	·
Blacksmiths, Tool makers and Machine Tool Operators	4	4	
Machinery, Fitters, Machine Assemblers and Precision Instrument Makers (Except Electrical)		•••	1
Electrical, Fitters and related Electrical and Electronic workers	• ·	•• :	
Broadcasting Station and Sound Equipment Operators and Cinema Projectionists	••	• 1	•
Plumbers, Welders, Sheet Metal and Structural Metal Preparers and Erectors	1	3	••
Jewellery and precious metal workers and metal engravers (except printing)	••	••	••
Glass Farmers, Potters and related workers	••	• •	
	130	465	1
Rubber and plastic product makers	•	. 3	·
Paper and paper board product makers	••	••	159
Printing and related workers	••	• •	11
Painters	••	. 2	2
Production and related workers, n.e.c.	••	11	· · ·
Bricklayers and other construction workers	1	••	••
Stationary Engines and related equipment operators, oilers and greaser	•• •	•••	
Material handling and related equipment operators	. 1	•••	_ 11
Fransport equipment operators	1.	Ŀ.	2
	2	17	186
Inskilled workers	167	19	26

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	Print- ing and Publi- shing	ying, tann- ing	Shoes and lea- ther foot wear	Other lea- ther pro- ducts	Rubb- er& rubb- er pro- ducts	Indu- stri- al chemi-	ts, Dyes and	lizer	Medi- cines, Phar- mace- utic- als and cos- metics	pen- tine syn- thetic and resi- ns	Soap & oth- er chem- ical prod- ucts	Bricks and tiles
1	24	25	26	27	28	29	30	31	32	33	34	35
Physical Scientists					2	- 23	16	29	15	2	4	
Physical Science Technicians			- 46	• • •		••	1	3	5	••	s. • •	•
Architects, Engineers, Technologists and Surveyors		• •	28		1	4	••	76	1	49		••
Engineering Technicains	••			••	••		••	10		- 11		
Aircraft and ships officers				••	••	••	••	••			۰.	••'
Life Scientists	~ •			••		••	· · •	••	, • •	••		
Life Science Technians	• •	• •	•••	••		••		••			• • •	•••
Physicians and Surgeons (including Dental Veternary Srugeons)	& 		8	•••		5		5	66	6	••	••
Nursing and other Medical and Health Technicians	• •	• •	•••			•••		1		••	• ••	• •
Scientific, Medical and Technical Persons other	•	• •	• ••	• • •	• ••	••	•••	-••	·	·• •	•	••
	• •	· · ·	82	••••	3	32	17	124	87	69	4	
				· .								
Mathematicians, Statisticians and related workers								1		1		
Economists and related workers				•								••
Accountants, Auditors and related workers	1			4	7 :						•	2
Social Scientists and related workers			. .			. 1		6	_			
Jurists		• •		•			••			-		••
Teachers						• ••		2		7		• •
Poets, Authors, Journalists & related worke	rs 4	4.				• • •				• •		••
Sculptors, Painters, Photographers and related creative Artists		1.		• •	:		•		•			• •
Composers and Performing Artists				• •	• •	• ••	••	• •	·			
Professional workers, n.e.c.	•	• •	. 22	2.	•••	• ••		S	5	6	.	••
	5	5 24	4 20	5	7 5	5 10	6	20) 13	44	5	2

1	24	25	26	27	28	29	30	31	32	33	34	3.
Elected and Legislative Officials	••				••					•••	•••	
Administrative and Executive officials Government and Local Bodies		••		••	••					••	••	
Working Proprietors, Directors and Mana- gers, wholesale & retail trade	••			••	••	••					••	
Directors and Managers, Financial Institu- tutions	••	••	••	••	••	••		••	••	•••	••	•
Working Proprietors, Directors and Manager Mining Construction, Manufacturing and related concerns	rs 327	137	391	125	79	69	34	13	72	205	109	19
Working Proprietors, Directors Managers and related executives, Transport, Storage and communication	••		••	••	••			••				• •
Norking Proprietors, Directors and Mana- gers, other services			••	•••	••	••				••	••	••
Administrative, Executive and Managerial workers, n.e.c.	••		••	••	••	••	••		••	••	••	••
	327	137	391	125	79	69	34	13	72	205	109	199
Clerical and other Supervisors	8	••	••	••	1	5	3	94	2	143	1	••
/illa ge officials	••	••	••	••	••	••	••	••	• •	••	••	••
tenographers, Typists and card and tape punching operators	13	31	2	1	1	3	8	24	5	41	••	• •
ook keepers, Cashiers and related workers	2	8	17	7	3	2	7	4	10	13	11	178
computing Machine Operators	••	••	••	••	••	••	••	••		3	••	••
lerical and related workers	116	139	326	12	17	20	34	7	74	119	9	3
ransport and communication supervisor	••	••	••	••	••	••	••	••	••	1	••	••
ransport conductors and Guards		••	••	••	••	••			••	••	••	
fail Distributors and related workers	••	••	••	••	••	••	••	••	3	••	••	••
Celephone and Telegraph operators	2				1	••	••	6	••	2	••	••
	141	160	345	20	23	30	52	135	94	322	21	181
ferchants and shopkcepers, wholesale and retail trade												
Janufacturers, Agents	2	3	4	2		••			1	6	1	
Cechnical Salesmen and Commercial Tra- vellers	8	••	28	2			••	••	30		•	••
alesmen, Shop Assistants and related workers	7	3	27	8		••	11	••	38	61	9	••
nsurance, Real Estate, Securities and Busi- ness Service Salesmen and Auctioneers	1	••	••	••	••		••	••	1	••	••	••
ioney Lenders and Pawn Brokers		••		••	••	••	••		••	••	••	••
ales workers, n.e.c.	••	••	••		••	••	••	••		•••	••	••
				12								

Appendix	V—Contd.

-												
1	24	25	26	27	28	29	30	31	32	33	34	35
Hotel & Restaurant Keepers	••	••	••	••	•••		•••	••				· · ·
House Keepers, Matron and Stewards (Domestic and Institutional)	••		••	••			••	••		••	• -	••
Cooks, Waiters, Bartenders and Related Workers (Domestic & Institutional)	••			••	••			••		8	••	
Maids and other House Keeping Service Workers, n.e.c.					••				••			••
Building caretakers										1	••	••
Launderers, Dry-cleaners & Pressers		••	••				••					
Hair Dressers, Barbers, Beauticians and												
related workers	••	••	••	••	••	••	••	••	••	••	••	••
Protective Service Workers	••	••	••	••	••	1	••	64	• •	4	••	••
Service workers, n.e.c.	• •	••	••	••	••	••	••	••	••		••	••
	•••	••	•••	••	••	1	••	64		13	•••	•••
Form Blandstein Data and all M												
Farm Plantation, Dairy and other Managers & Supervisors	•••	••	••	••	••	••	••	••	••	••	••	••
Cultivators	••	••	••	••		••	••	••		••	••	••
Farmers other than cultivators	••	••	••	••	••	••	••	••	••	••	••	••
Plantation workers	••	••	••	••	••	••	••	••	••	••	••	••
Other Farm Workers	1	1	••	••	••		••	17	2	2	1	••
Forestry workers	••	••	••	••	••	••	••	••	、	••	••	••
Hunters and related workers	••	••	••	••	••	••	••	••	••	••	••	••
Fishermen and related workers	••	••	••	••	••	••	••	••	••	••	••	••
	1	1	••	••	••	••		17	2	2	1	•••
Miners, Quarrymen, Well Drillers and relat-												
ed workers	••	••	••	••	••	••	••	••	••	742	••	••
Metal Processors	••	••	••	••	••	21	••	••	••	4	••	• •
Wood Preparation workers	2 2	••	••	••	••	••	••	••	••	••	••	••
Chemical processors and related workers	••	••	••	••	4 8	694	324	418	264	10	295	••
Spinners, weavers, knitters, Dyers and relat- ed workers			••	7						591	••	
Tanners, Fell-mongers and Pelt Dressers	••	796	5	••	•		••	••	••	••	••	••
Food and Beverage Processors				••					'n		2	••
Tobacco preparers and Tobacco product makers		••	••	••				••	-		-	
Tailors, Dress makers, Sewers, upholsters & related workers	••	••	••	4	••	••	••	••		7	••	`••
							_					

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Shoemakers and Leather goods makers 69 2692 387 23	2 33 	34	35
Comportant Cable A and a late 1 and a		••	••
Carpenters, Cabinet and related wood workers 3 4 1 1 .	. 7		•••
Stone cutter and carvers		••	••
Blacksmiths, Tool makers and machine Tool Operators 1 1 2 3 9 3 22 .	90) 4	· •
Machinery, Fitters, Machine Assemblers and Precision instrument makers (except Electrical) 17 2 11 14 7 169	1 255	1	••
Electrical, Fitters and related Electrical and Electronic workers 4 6 1 1 8 1 31	2 53	5	••
Broadcasting Station and Sound Equipment Operators and Cinema Projectionists	• ••		• •
Plumbers, Welders, Sheet Metal and Struc- tural Metal Preparers & Erectors	. 35	1	••
Jewellery and precious metal workers & metal engravers (except printing) 12			
Glass Formers, Potters and related workers	. 2		148
20 93 2695 389 38 40 13 229	3 442	11	148
	7 716	••	•
Paper and paper board product makers		••	• •
Printing and related workers 1245	5		•
Painters 6	1	••	•
Production and related workers, n.e.c	•••	40	• •
Bricklayers and other construction workers	. 4	••	•
Stationery Engines and related Equipment Operators, oilers and greasers 2 2 16 13 3 9 1	.1 81	12	31
Material handling and related equipment operators 10 3 59 1 3 7 12 54 1	182 4 9	33	•••
Transport equipment operators 5. 1 8 1 3 73	4 31	11	5
1263 6 67 3 371 28 24 140 20	04 887	96	8
		63	26
Unskilled workers 219 1655 346 13 105 74 32 73	87 325		

Appendix V—Contd.

Appendix V--Contd.

Professional workers, n.e.c.	-	• •	••	••	**	• •	••	• •					••	
D C : 1 1	2				2								14	64
Composers & performing Artists		••	••	••	• •	• •		••	••	••		••		••
Sculptors, Painters, Photo- graphers & related creative Artists											4		3	10
Poets, Authors, Journalists and related workers		••							1		2			47
Teachers	••	• ·	• •		••	••			3		3	••	59	108
Jurists	••	••	• •		••	• •	••	••	••		••	••	••	••
Social Scientists and related workers	2	••			1		••	1	1		10		6	90
Accountants, Auditors & rela- ted workers	15	8	6	4	1	35	8	13	11	6	20		26	347
Economists & related workers				• •										5
Mathematicians, Statisticians & related workers		••		•••	•••				••	••	2			17
	44	1	•••	3	15	44	35	3 8	81		661	••	985	26 33
Scientific, Medical and Techni- cal Persons, other	••	•••				••			••			• •	•••	••
Nursing & other Medical and Health Technicians									3		7	••	4 6	7 0
Physicians and Surgeons (in- cluding Dental & Veterinary Surgeons)	4				••				2		3		24	157
Life Science Technicians			••	••	••					••	• •			13
Life Scientists		••			••				••					3
Aircraft and Ships Officers			••					••						••
Engineering Technicians	9		••	1	15	15	12	50 7	40	•••	376	••	799	1336
Architects, Engineers, Tech- nologists and Surveyors	16		••			 29	23	30	36	••	 275		115	871
Physical Science Technicians	14	••	••	1	1	••	••		• •	••	••	••	1	67
Physical Scientists				1										116
	36	37	38	39	 40	41	42	43	44	45	46	47	48	 49
Description of Occupation	Smelting, refining & re-rolling of iron &	Iron & Steel furniture	Alumininm products	Metal products such as tin-can etc.	Enamelling, galvanis- ing & welding	Sundry hardwares	251	Electrical equipment and goods	venucies parts man & repairii	Bicycles, tricycles & accessories	Acroplanes and aero- engines	Repairing of bicycles & tricycles	Other manufacturing industries	Manufacturing indus- tries (total Divn. 2+3)

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1	36	37			40	41	42	43	44	4 5	46	47		49
Elected & Legislative officials Administrative & Executive	••	••	••	••	••	••	••	••	••	••		••	••	• •
officials Government and local Bodies						••		••			• •		. 8	8
Working Proprietors, Direc- tors & Managers, wholesale & retail trade														
Directors & Managers, Financial Institutions														
Working Proprietors, Directors & Managers, Mining Cons- truction, Manufacturing & related concerns	200	61	94	100	70	401	106	152	361	57	54	55	371	7087
Working Proprietors, Directors, Managers & related execu- tives, Transport, Storage		61	34	122	70	481	196	153	201	57	51	55	571	,
& Communication * Working Proprietors, Directors	••	••	••	• •	••	•••		••		••	3	••	••	4
& Managers, other services Administrative, Executive &	••	••	••	••	••	••	••		••			••	••	••
Managerial workers, n.e.c.	• -	• •		••	•••			•••			•••	••	••	
	200	61	34	122	70	481	196	153	3 61	57	57	55	379	7099
Clerical & other Supervisors	19		4	2	<u> </u>	11	24	16	61	1	90	••	406	1279
Village officials	••			••				•••		••			••	••
Stenographers, Typists and Card & Tape punching operators	1 14	2	1	1		19	9	26	7		126		26	4 76
Book Keepers, Cashiers & related workers	22	9	4	10	5	33	6	7	5	1		2	29	703
Computing Machine Operators	1			••	••	••			••	••		••	1	12
Clerical & related workers	123	30	16	25	18	115	23	95	320	6	397	••	628	5423
Fransport & Communication Supervisors						••			1		1			3
Fransport Conductors & Guard	s			• •		••								
Mail Distributors and related workers									70		78		49	205
elephone & Telegraph operator	rs	l				1		1	1		3		8	32
	179	42	25	38	23	179	62	145	465	8	695	2	1147	8133
Merchants and shopkeepers,		m												
wholesale and retail trade	••		••	••	• ·	••	••	••	• •	••	• •	• •	••	
Manufacturers' Agents	•••	••	••	••	••	• •	•••	4	••	1	••	• •	l	43
Fechnical Salesmen and Com- mercial Travellers	•••	••		••	••	••		7					2	79
alesmen, Shop Assistants and related workers	6	1	1			11	7	9	23	1		3	35	459
nsurance, Real Estate, Secu- rities and Business Service Salesmen and Auctioneers		. <i>.</i>		••						•••	• •			2
Money Lenders and Pawn Brokers			••										• -	4
ales workers, n.e.c.					••	•••								

Appendix V—Contd.

1	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Hotel & Restaurant keepers	•••		••		••	••	•••		• •		.,		• •	
Housekeepers, Matron & Ste- wards (Domestic and Insti- tutional)									••				1	1
Cooks, Waiters, Bartenders and related workers (Domestic & Institutional)		•••			••	2	2		2		30		5	188
Maids and other House Keep- ing Service workers, n.e.c.			•••					• •				••		1
Building caretakers		· •		• •								••		2
Launderers, Dry-cleaners & Pressers	••	• •	••			••	1	1	I				2	110
Hair Dressers, Barbers, Beauti- cians and related workers		••	• •		• •				1				1	1
Protective Service workers	1	••	1		1	2	1	••	••	••	18		60	203
Service workers, n.e.c.	••	••		••			•••	••	••	••	••			
	1	•••	1		1	4	4	1	4	• •	48		69	507
Farm Plantation, Dairy and														
other Managers & Super- visors														19
Cultivators		• •	•••	••	••	••	••	••	••	••	••	••		••
Farmers other than cultivators	••	• •	••	••	••	••		••	••	••	••	••	••	
Plantation workers		• •	• ·	••	••	••	••		••	••	••	••	•••	
Other Farm Workers	2	••	••	••	••	6	1	••	2	••	5	••	16	216
Forestry Workers	••	••	••	••	••	••	• •	••	••	••		••	• •	
Hunters and related workers	••	••	••	•••	••	••	••	••	••	• •	••	••		••
Fishermen and related workers	• • •	•••	••		••	••	•••	••	•••	••	••	••	••	•••
	2	••				6	1		2	• •	5	••	16	235
Miners, Quarrymen, Well Drillers & related workers	4												6	752
Metal Processors	1711	12	177	20	140	353	18	58	28	19	10		638	3280
Wood Preparation Workers			••	••		••			•••				7	660
Chemical processors and rela- ted workers		••	• •		2			6					60	2156
Spinners, Weavers, Knitters, Dyers and related workers							•••						459	45047
Tanners, Fellmongers and Pelt Dressers						1		••		•••				302
Food and Beverage Processors							• •				• • •		10	2762
Tobacco preparers and Tobacc Product makers	co 		••				• •		••	••		••	••	202
Tailors, Dressmakers, Sewers, Upholseres & related workers									29				3	6182
	1715	12	177	20	142	354	18	6 4	57	19	10	••	1183	61843

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Appendix V-Gontd.

1	36	37	38	39	40	41	42	43	44	45	46	47	418	49
Shoemakers and Leather goods makers	1					2			1	4			. 9	33()3
Carpenters, Cabinet and related wood workers	10	2		4	4	3	10	6	200	4	37	• •	126	1217
Stone cutter and carvers		••	••	••	••	••	••	••	••	•••	••		4	4
Blacksmiths, Tool makers and Machine Tool Operators	467	113	252	135	104	1228	459	58	47 5	94	94	•••	5630	9919
Machinery, Fitters, Machine Assemblers and Precision Instrument Makers (Elec- trical)	142	95	7	26	54	280	1 8 8	53	1964	57	1221	162	1812	9696
Electrical, Fitters and related Electrical and Electronic workers	67	1		3	4	16	7	456	217		203	1	262	1855
Broadcasting Station and Sound Equipment Operators and Cinema Projectionists	1 		••		••				• •					
Plumbers, Welders, Sheet Metal and Structural Metal Preparers and Erectors	94	171	28	419	83	251	43	3	230	33	63	1	277	1891
Jewellery and precious metal workers & metal engravers (except printing)	••	••						••		••	2	••	101	151
Glass Formers, Potters and related workers	1		••	••	••	••		238	2	•••	••		119	511
	782	382	287	587	249	1780	796	811	3089	192	1620	164	8340	28547
Rubber and plastic product makers		••		••				2	74		14	• •	132	1307
Paper and paper board product makers	t 		••			••	••		••		•••		• •	159
Printing and related workers		•••	••	••		4	••	••	••		16	• •		1283
Painters	2	30		14	6	4	7	1	86	17	43	••	76	32 3
Production and related workers, n.e.c.	••	8	••		••		••	140	••	••	••		527	743
Bricklayers and other construction workers	24	•••	••	••	••	2	1	3	3	••	3	••	133	238
Stationery Engines and related Equipment Operators, oilers and greasers	52	•••		3	38	1	1	10	151		4	•••	205	1 99 5
Material handling and related equipment operators	5 3	1	1			16	2	38	11	10	7		465	1950
Transport equipment operators	14	1	1	••	••	9	5	6	111	5	41	••	135	701
-	145	40	2	17	44	36	16	200	436	3 2	128		1673	8699
Unskilled workers	688	184	117	145	36	846	174	218	926	81	25 9	2	1903	13562

Appendix V-- Contd.

Appendix V- Contd.

Description of Occupation	Construction	Electricity, gas, water & sanitary services	Wholesale Trade	Retail Trade	Providents and insur- ances	Banking	Total Industries 6	Transporting by railways	Transporting by bus services & other motor vehicles 7	Other industries in this Division	Total industries 7
1	50	51	52	53	54	55	56	57	58	59	60
Physical Scientists	••	38						3	·····		3
Physical Science Technicians	16	5	••				••				
Architects, Engineers, Technologists and Surveyors	340	117	10	2	7	1	20	9		19	28
Engineering Technicians	394	2 9 6				5	5	129		126	255
Aircraft and Ships Officers	• •	••	••	••	• •				••		
Life Scientists	· •	2	••	••		••	••				••
Life Science Technicians	• •							1			1
Physicians and Surgeons (including Dental and Veterinary Surgeons)	• •	6	2	5	I	3	11	17		••	17
Nursing and other Medical and Health Technicians		3				• •		30			30
Scientific, Medical and Technical persons, other	••			••	••	••		•••	••		•••
	750	527	12	7	. 8	9	36	189		145	334
Mathematicians, Statisticians and related workers					1		1		· · ·		···-
Economists and related workers .						16	16	••			
Accountants, Auditors and related workers	24	23	2 08	125	11	154	498	••	56	29	85
Social Scientists and related workers	47 A	4		• •	•••	7	7		••	. 1	1
Jurists	I	• •	4		• •	5	9				
Teachers	••	• •							••	••	••
Poets, Authors, Journalists and related workers			• •		•••	••	••			••	••
Sculptors, Painters, Photographers and related creative Artists	- •	• .						•		-	
Composers and performing Artists							••	••	••	•••	••
Professional workers, n.e.c.	• ·	2		••	•••	••	•••	•••	· · · ·	10 •••	10
	25	29	212	125	12	182	531	<u>-</u>		40	96

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1	50) 5	51	52	53 :	54	55	56	5 7	58	59
Elected and Legislative officials			• •	· .	• •	·		• •	• •	 	• • • •
Administrative and Executive Officials Governmen and Local Bodies	nt 58	. 7	· .		. 4	ŀ.		4.		. (6
Working Proprietors, Directors and Manager wholesale and retail trade	s, 	• •	3 2 4	9 200	1 3	3]	0 526	3.	•		
Directors and Managers, Financial Institutions		• •			. 252	7 79	7 105	4.			
Working Proprietors, Directors and Managers Mining Construction, Manufacturing and relate concerns		15	• •		· .		·				
Working Proprietors, Directors, Managers and related executives, Transport, Storage and Com- munication			• •					••	443	67	510
Working Proprietors, Directors and Managers, other services	••			·	•••						
Administrative, Executive and Managerial workers n.e.c.	•	••	• •	••						••	• •
	75	22	3249	2001	264	807	6321	• •	443	73	
Clerical and other Supervisors	238	106	72	2 8	550	476	1106	54	117	42	213
/illage officials	6 2	64	• •		•	••		• •	• •		
tenographers, Typists and card and tape punch- ing operators	26	85	143	39	115	247	544	6	17	10	33
ook Keepers, Cashiers and related workers	10	38	1295	230	44	2 843	4412		66	2	68
computing Machine Operators	11	39	••	•••	3		3	••			
lerical and related workers	45 8	564	1 04 5	240	74 2	309	2336	1 0 68	8 95	1047	3010
ransport and Communication Supervisors	••	•••		• ·			• •	267	24	653	944
ransport Conductors and Guards	••		••	• •	••	••		41	554		595
lail Distributors and related workers	1	22	• •			20	20	23		1617	1640
elephone and Telegraph operators	4	12	6	••	4	2	12	9	2	484	495
_	810	930	2561	517	145 8	3897	8433	1468	1675	38 55	6998
erchants and shopkeepers, wholesale and retail trade										•	
anufacturers' Agents		•••	42	 27	 70		140	••	• ·	••	••
chnical Salesmen and Commercial Travellers		3	 63	8			142	••	•••	••	••
lesmen, Shop Assistants and related workers				2798	••	••	71 5100	••	••	•••	••
surance, Real Estate, Securities and Business Service Salesmen and Auctioneers				1	•••		5109 11	••	••	••	••
oney Lenders and Pawn Brokers		•••			••	3	3	••	••	••	••
ney Lenders and Lawn Brokers						-	2	••	••	۰.	••
es workers, n.e.c.	••	•••	• •		•••			• •		• -	

Appendix V-Conid.

-	zhhen								_		
1	50	51	52	53	54	55	56	57	58	59	60
Hotel and Restaurants keepers				• .						••	
House Keepers, Matron and Stewards (Domestic and Institutional)			• •				• •				
Cooks, Waiters, Bartenders and Related workers (Domestic and Institutional)	2	•••	2	14		7	23	157		2	159
Meids and other House Keeping Service workers. n.e.c.								32		5	37
Building caretakers	1		1		••	5	6				
Launderers, Dry-cleaners and Pressers	• -		•••	••							
Hair Dressers, Barbers, Beauticians and related workers											
Protective Service workers	••	 22	1			3	4			6	6
Service workers, n.e.c.		• •				• •		••			
	3	22	4	1-1		15	3 3	189		13	202
Farm Plantation, Dairy and other Managers and					,						
Supervisors	••	••	••	• •	• •	••		••	••	••	• •
Cultivators			• •	• •	• •	•••		••	• •	••	• •
Farmers other than cultivators	• •		• •			••		• •	• •		
Plantation workers	••				••		••	• •	••	••	
Other Farm Workers	4 00	22	3	3	2	22	30	2	••	4	€
Foresti y Workers	••	••	••	7	••	• •	7	••	••	••	• •
Hunters and related workers	••		••	••	••	••	• •	••	• •	••	• •
Fishermen and related workers		••	••	••	••		••	• •			
	400	22	3	10	2	2 2	37	2		4	6
Miners, Quarrymen, Well Drillers and related											
workers		• •	••		•••	••	••	••	• •		
Metal Processors	9	13	•••	••	•••	••		•••	••		
Nood Preparation Workers	•••	••	5	••	••	••	5	•••			• •
Chemical processors and related workers		50	5	5		••	10		• •		
Spinners, Weavers, Knitters, Dyers and related workers		•••	15	••	••	••	15			• •	
Tanners, Fellmongers and Pelt Dressers		• •	151	• •		• •	151			••	
Food and Beverage Processors		1	10	7	••	••	17	•	•••	• •	
Fobacco preparers and Tobacco makers	•••			1	••		1				
Failors, Dress makers, Sewers, Upholsteres and	2		2	13	••		15		3		3
related workers											

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Appendix V—Contd.

1	50	51	52	53	54	55	56	57	58	59	60
Shoemakers and Leather goods makers	•••	•••		4	•••		4			•.•	
Carpenters, Cabinet and related wood workers	93	23	5	16	1		22	3 2	9	1	42
Stone cutter and carvers	• •										
Blacksmiths, Tool makers and Machine Tool Operators	157	82	2	11			13	210	7		217
Machinery, Fitters, Machine Assemblers and Precision Instrument makers (except Electricial)	124	241	5 8	278		2	338	769	39	2	810
Electrical Fitters and related Electrical and Elec- tronic workers	90	915	28	81	2	5	116	309	3	509	821
Broadcasting Station and Sound Equipment Opera- tors and Cinema Projectionists			••		••	••				10	10
Plumbers, Welders, Sheet Metal and Structura Metal Preparers and Erectors	32	42		•••	2		2	538	8		546
ewellery and precious metal workers and metal engravers (except printing)		•.		7		•••	7	•••	••	••	
Glass Formers, Potters & related workers	•••	• •		2		••	2	••	••	••	••
	496	1303	93	399	5	7	504	1858	66	522	2446
Rubber and plastics product makers				4			4		•••		
Paper & paper board product makers		••		••	•••	••	••				
Printing and related workers	•••			2			2				
Painters	14	14		5			5	18	1	•••	19
Production and related workers n.e.c.	2	••		45	•••	•••	45	••	••	• ·	
Bricklayers & other construction workers	311	51	•••	2	2	6	10	5		••	5
Stationary Engine and related Equipment Operators, oilers & greasers	234	586	13	27	11	7	58	119	182	55	356
Material handling & related Equip- ment Operators	7 0	90	354	124	3	20	501	34	9	78	14
Transport equipment operators	94	166	107	75	12	2	196	1164	715	26	1807
	725	907	474	284	28	35	821	1340	907	161	2408
Unskilled workers	2208	3107	1111	543	274	1658	3586	2824	825	318	396
GRAND TOTAL	5503	6940	10325	6758	2121	6648	25852	7870	3975	5131	1697

Appendix V—Contd.

Appendix V-Contd.

Description of Occupation	Public Services in administrative department & offices of State	Government Public Services in administra- tive department & offices of	Central Government Public Services in administra-	tive department & onces of Qu- asi-Government & local bodies Educational Services technical	Educational Services Non- technical	Scientific Services & research institutions	Public health & medical services	Services rendered by hotels & restaurants	Other Services in Div 8	
1	61	62	63	64	65	66	67	68	69	70
Physical Scientists	3	707		3	1	9	• •		••	723
Physical Science Technicians	1				194	27		•••		222
Architects, Engineers, Technologists and Surveyors	9	201	13	9	2	26			1	261
Engineering Technicians	48	484	28	77	10	11	2	••	2	659
Aircraft and ships officers	••		•••			••	••	••	••	••
Life Scientists	1	1	••	94	••	303	5	••	2	406
Life Science Technicians	••	3	••	9	••	8	16			36
Physicians and Surgeons (including Dental and Veterinary Surgeons)	76	21	••	19	••	••	737	• (25	878
Nursing and other Medical and Health Technicians	58	53x	3	112	4	3	1249	••	2	1584
Scientific, Medical and Technical Persons, other	•••	1		••		••	15			16
	193	1471	44	323	211	387	2124	••	32	4785
Mathematicians, Statisticians and related workers	22	20	5	6	••	8	3	••		64
Economists and related workers	62	23					••			85
Accountants, Auditors and related workers	60	162	69	30	33	4	8	11	50	4 27
Social Scientists and related workers	78	22		22	4 2	1	168		262	595
Jurists .	66	••	2	••					214	69
Teachers	47	18		1560	17539	98	7			19277
Poets, Authors, Journalists and related workers	9	1	4	••	•••		••	••		14
Sculptors, painters, Photographers and related creative artis	sts 4	5	2	7	1	5	• 7		24	55
Composers & performing Artists	2	••			•••			••	202	204
Professional workers, n.e.c.	25	8 4	1	235	168	160	19	••	29	116
-	375	335	83	1860	17778	276	212	11	576	21506

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1	61	62	6 3	64	65	66	67	68	69	70
Elected and Legislative officials	••	•••	••	••	••		••		•••	
Administrative and Executive Officials Government and Local Bodies	673	363	29 9	25	68	7	1	••	122	1558
Working Proprietors, Directors and Managers wholesale and retail trade		••		•••	••	••			••	••
Directors and Managers, Financial Institutions	••	••	••	••	••		••	••	••	
Working Proprietors, Directors and Managers Mining Construction, Manufacturing and related Concerns		••					••		••	
Working Proprietors, Directors, Managers and related executives, Transport, Storage and communica- tion			••	••	•••		•••		•••	••
Working proprietors, Directors & Managers other services		••	••				••		••	
Administrative, Executive and Managerial Workers, n.e.c.	••	••	••	••	••	••	••	••	••	
-	673	363	299	30	74	7	24	648	488	2606
Clerical and other Supervisors	826	1443	607	142	234	67	31	••	61	2411
Village officials	847								59	906
Stenographers, Typists and card and tape punching operators	358	181	68	77	22	19	10		33	768
Book Keepers, Cashiers and related workers	151	21	16	32	9	2	8	69	79	4 87
Computing Machine Operators	21	49	••	14	••	3	15	••		102
Clerical and related workers	1535	1874	770	328	786	118	197	53	263	5924
Transport and communication supervisors	•••	2	• •	•••	••	••	••	••	3	5
Transport conductors and Guards			••		1	••				1
Mail Distributors and related workers	18	2	278	••		2	••	•••	16	316
Telephone and Telegraph operators	3	8	2	7		1	••	3	4	28
	3759	3580	1841	600	1052	212	261	125	518	11948
Merchants and shopkeepers, wholesale and retail trade		••	••	••			••	••		
Manufacturers/Agents	***	••		1			••			1
Technical Salesmen and Commercial Travellers	010	••	••			••	••	••	••	••
Salesmen, Shop Assistants and related workers	ø	••	4	2			••	18	36	60
Insurance, Real Estate, Securities and Business Service Salesmen and Auctioneers				••		•	••		7	7
Money Lenders and Pawn Brokers	•••			••		••	•••	••	•••	
Sales workers, n.e.c.			••			••	••	••		••
			4	3		·		18	43	68

Appendix V—Contd.

1	61	62	63	64	65	66	67	68	69	70
Hotel and Restaurants keepers		••			··••			•••	•••	••••
House keepers, Matrons and Stewards (Domestic and Inst tutional)		••		3	4	1	3	8	1	20
Cooks, Waiters, Bartenders and related workers (Domes- tic and Institutional)	119	201	••	37	20		141	2472	59	3049
Maids and other House keeping service workers, n.e.c.	••		••	24	931	· 3	••	11	1	97 0
Building caretakers	••	1	72		•••	1	1		2	77
Launderers, Dry cleaners and Pressers	29	51	••	••	3		74	4	437	['] 598
Hair Dressers, Barbers, Beauticians and related workers	15	11	••	•••	••		2		220	248
Protective Service Workers	6400	466		3	•••	1		•••	. 7	6877
Service Workers, n.e.c.	••	••	••	••	••	••	`••	3	••	3
Service Workers	6563	730	72	67	958	6	221	2498	727	11842
Farm Plantation, Dairy and other Managers and Super- visors	2	••		7		51				60
Cultivators		••	••	••	•••	••		••	••	
Farmers other than Cultivators	••	••	••	59	••	1	••	••	••	60
Plantation workers	••	••	••		••	••		••		••
Other Farm workers	49	14	36	100	106	18	59	6	28	416
Forestry workers	••	••	••	••	••	6	••	••	9	15
Hunters and related workers	••	••	••	••	••	• •	••		••	
Fishermen and related workers	••	••	••	•••	••	••	••	••	••	••
	51	14	36	166	106	76	59	6	37	551
Miners, Quarrymen, Well Drillers and related workers			•••	••	••	•••				••
Metal Processors		105	1	3		1				110
Wood Preparation workers		19	1		•••	-	••	••	••	20
Chemical processors and related workers	••	518	16	4		••	••	•••	•••	53 8
Spinners, weavers, knitters, dyers and related workers	5	238	13	•••	••			••	4	260
Tanners, Fellmongers and Pelt Dressers		201	••		•••	••	••			201
Food and Beverage Processors	5		5	2		1		12	2	2 7
Tobacco preparers and Tobacco product makers	•••	••	••	•••	••	••	:.	••		• •
Tailors, Dress makers, Sewers, upholsterers and related workers	20	1899	21				8	••	18	1966
		2980	·····							

Appendix V-Contd.

1	61	62	63	64	65	66	67	68	69	70
Shoe makers and leather goods makers	6	1846	••	4	••		8	••		1864
Garpenters, Cabinet and related wood workers	2	298	1	6		3	4	••	3	317
Stone cutters and carvers		••			••			••	••	• •
Blacksmiths, Tool makers and Machine Tool Operators	1	747	13	307	••	4	••	••	6	1078
Machinery Fitters, Machine Assemblers and Precision Instrument makers (except electrical)	8	1124	16	49	5	21	1	3	14	124
Electrical Fitters and related electrical and Electronic workers	3	230	13	18	I	. 3	6	••	27	301
Broadcasting Station and Sound Equipment Operators and Cinema Projectionists	1	7	••	1		••	4		88	101
Plumbers, Welders, Sheet Mctal and Structural Metal Preparers and Eractors		297	1	2		2	4	2	• •	208
Jewellery and precious metal workers and metal engravers (except printing)	•.•	1		••	• •	• •		••	••	1
Glass Formers, Potters and related workers	••	1	••	1	* •		••		••	2
-	21	4551	44	388	6	33	27	5	128	5213
Rubber and plastic product makers	••	1		••			•••	••	••	1
Paper and paper board product makers	••	• •	••	۰.		••	••	•••		••
Printing and related workers	••	61	1	4		2	1	••	40	109
Painters		107		1		••	1		49	158
Production and related workers, n.e.c.	•••	39		••		••	••		6	45
Bricklayers and other construction workers	••	39	5	1		••	1	1	••	47
Stationary Engines and related equipment operators, oilers and greasers	5	82	10	38	9	16	8		1	171
Material handling and related equipment operators	17	1134	2	6	••	2	3	2	9	1175
Transport equipment operators, labourers, n.e.c.,	61	226	52	53	447	16	52		28	9 35
-	83	1689	70	103	456	36	66	3	135	2641
Unskilled workers	2008	5596	1600	1311	3153	287	5356	88	519	19918
Grand Total 1	3756 3	21309	4150	4860	23794	1322	83 58	3414	3237	84200

Appendix-V Concld.

Appendix VI

Women employees by occupation in 1974

Occupations	~	Numbe
1		2
I. PROFESSIONAL, TECHNICAL A	ND RELATED WORKERS	720
(i) Scientists, engineers and techno	ologists	2
Chemists		2
Electrical engineers		
Bacteriologists and pharmacolog	ists	
(ii) Doctors and medical and health	technicians	96
Physicians and surgeons-allopa	thic	8
Physicianshomoeopathic		
Dentists		
Pharmacists		1
Vaccinators and dressers		3
Nurses		43
Midwives and health visitors		27
Physiotherapists and occupation	al therapists	
Nursing and midwifery attendan	ts	11
Scientific, medical and technical	l persons—others	
(iii) Teachers		607
University and College teachers	—Arts	18
	—Education —Science	1
	Engineering	1
	-Medicine and Surgery	4
	-Other subjects	
Secondary school teachers		111
Middle and primary school teach	hers	413
Teachers—infant school		49
Manual training and art teacher	rs	3
Teachers-others		3
(iv) Accountants, social scientists and	d other professionals	13
Accountants and auditors		
Librarians, archivists and curato	ors	1
Personnel and occupational speci	ialists	•
Family planning organisors		8
Village level workers		
Labour and social welfare worke	ers	
Composers and performing artist	ts	
Physical training instructors		
Laboratory attendants		

1	2
II. ADMINISTRATIVE, EXECUTIVE AND MANAGERIAL WORKERS	160
Administrative and executive officials—Union Government	1
Administrative and executive officials-State Government	8
Working proprietors, directors and managers-wholesale trade	35
Working proprietors, directors and managers-retail trade	29
Directors and managers—bank	2
Working proprietors, directors and managers-manufacturing	63
Working proprietors, directors and managers-transport, storage and communication	3
Working proprietors, directors and managers-lodging and catering	8
Working proprietors, directors and managers-other services	t 1
III. CLERICAL AND RELATED WORKERS	741
Section Officers	10
Other supervisors and inspectors	14
Office assistants	34
Stenographers and steno-typists	42
Typists and tele-typists	34
Key punch and verifying machine operators	11
Book keepers, accounts and audit clerks	4
Bank and ledger clerks	37
Cashiers	2
Book keeping and calculating machine operators	8
Automatic data processing machine operators	1
Clerks	248
Store keepers and related workers	5
Receptionists	4
Ticket collectors, checkers and examiners	3
Clerical and related workers-others	3
Telephone and telegraph operators	281
IV. SALES WORKERS	11
Salesmen, shop assistants	11
V. SERVICE WORKERS	978
House keepers, matrons and stewards	6
Cooks and cook bearers	6
Butlers, bearers, waiters and bartenders Maids and related house keeping service workers	24 937
Launderers, dry cleaners and pressers	557
VI. FARMERS, FISHERMEN, HUNTERS, LOGGERS AND RELATED WORKERS Gardeners and nursery workers	1
VII. PRODUCTION AND RELATED WORKERS	1749
Moulders and core makers	I
Metal processors—others	5

Appendix VI-Contd.

2 1 7 Supervisors and foremen-chemical processing **3**0 Chemical processors 30 Fibre preparers 4 Reelers (textile) 1344 Spinners and winders 11 Spinning and winding operators 4 Warpers and sizers 13 Weavers-handloom 6 Drawing and weaving operatives 13 Carpets and dari weavers 1 Knitters 2 Bleachers, dyers and textile product finishers 4 Grain millers, parchers and related workers Food preservers and canners 2 5 Bakers, confectioners and sweet meat makers 17 Tobacco preparers and tobacco product makers 16 Supervisors, foremen-tailoring, dress making, sewing and upholstry 15 Tailors and dress makers 1 Carpentry and joining operatives 1 Hammerman and stamper 20 Watch, clock and precision instrument makers (except electrical) Supervisors, foreman-electrical and electronic equipment 7 69 Electronic fitters 11 Electrical and electronic equipment assemblers 5 Radio and television mechanics and repairmen 7 Electric Linemen and cable jointers 1 Supervisory-broadcasting-audio visual, projection and sound equipment operation 2 Cinematograph operators 7 Glass formers, cutters, grinders and finishers 14 Plastic product makers 1 Paper and paper board product makers 16 Printing pressman 25 Production and related workers, n.e.c. 2 Stationary engine and related equipment operators 30 Packers, labellers and related workers 10,840 Total 2,306 ! UN-SKILLED 13,146 GRAND TOTAL

Appendix VI-Concld.

Appendix VII

Employment growth by economic activity

Economic Activity	Nur	Women - employees			
	1967	1974	1979	1974 -	
1	2	3	4	5	
GRICULTURE, LIVESTOCK	828	1446	1697	:	
Production of cereal and cash crops	326	706	723	•	
Rearing of livestock etc.	502	740	974		
MANUFACTURING	101837	132533	163845	199	
Rice, atta, flour	885	1788	2673	1	
Sugar		••	282	•	
Jam	••	5	10		
Bakery products	492	1173	1712		
Butter, ghee and cheese	82	530	548		
Edible, fats and oils	710	1216	1658		
Hydrogenated oils (vanaspati)	462	553	583		
Sweat-meat and condiments	423	855	1198	1	
Distilled spirit, wine		48	48		
Aerated and mineral water	16	293	293		
Ice	120	190	249		
Ice-cream	26	105	132		
Bidi, jarda and tobacco products	223	398	533	2	
Cotton ginning, pressing and spinning (other than in mills)	16	160	160		
Cotton spinning and weaving in mills	42390	42721	42721	2	
Cotton and silk dyeing and bleaching	60	206	986		
Cotton weaving in power looms	310	621	969	7	
Cotton weaving in handlooms	953	1254	1803	39	
Cotton cordage, rope and belts	441	700	1088	2	
Other cotton textiles and printing	257	295	422		
Jute spinning and weaving and other jute products	3369	4469	4482	2	
Wool spinning and weaving	3372	4443	4443	2	
Carpets and daries	1936	2526	3460	91	
Hosicry and knitted fabrics	280	669	1031		
Embroidery and crepe lace	22	290	532		
Miscellaneous textile products such as pillow cases, curtains, tarpaulins	4021	4126	4561		
Textile Garments	1226	34 10	5312	1	
Sawing and planing of wood	492	1144	1748		
Wooden furniture, structural material, boxes and packing cases	256	682	1013		
Paper, paper board and paper products	176	367	515		
Printing and publishing of newspapers	188	336	394		
Printing and publishing of books	534	1108	1651		
Lithography, block-making, binding and all other type of printing	484	622	7 9 6		
Currying, tanning and finishing of hides	2001	2878	3906		
Shoes and other leather foot-wear	862	4016	4686		
Other leather products	307	580	813		
Tyres and tubes	103	311	427		
Other rubber goods and products	61	361	- 606		
Basic industrial chemicals such as acids and alkalies	687	99 9	1403		
Dyes, paints and varnishes	338	513	692		

1	2	3	4	5
Fertilizer	• •	1233	1313	22
Medicines, pharmaceuticals and cosmetics	614	897	1231	49
Soap and cleaning compounds	100	237	445	2
Turpentine, synthetic resin and plastic products	2217	3730	4530	16
Other chemical products such as matches, common salt and ph.	130	380	620	
Bricks and tiles	283	874	1458	4
Lime, cement and stone goods	97	190	263	1
Earthen wares, chinaware and crockery	60	77	142	2
Smelting, refining and rerolling of iron and steel	3193	3781	4995	1
Smelting and refining of non-ferrous metals	18	55	78	
Structural steel products	40	89	163	••
Iron and Steel furniture	616	731	1368	
Brass and belt metal products	107	205	248	
Aluminium products	194	650	870	7
Metal products such as tin can	506	93 6	1539	1
Enamelling, galvanising and welding	280	58 4	866	
Sundry hardwares	1933	3776	6583	4
Agricultural implements and oil engines etc.	583	1317	1984	
Prime movers, boilders, road rollers etc.	221	332	471	
Machine tools and textile machinery	212	239	284	
Electrical motors and transformers	23	101	171	
Electric lamps & fans	399	766	1491	14
Insulated wires & cables and batteries	75	192	208	•
Electronic equipments, such as radio & microphones, tape records	75	426	824	99
Electrical apparatus and appliances	77	179	292	
Motor vehicles, engine parts & accessories	79	273	575	
Repairing & servicing of motor vehicles	3713	5187	6657	4
Bicycles, tricycles & accessories	317	397	619	
Aeroplanes & aero-engines	2649	3524	3524	21
Repairing of bicycles & tricycles	88	226	326	
Jewellery & silver wares	96	145	185	
Stationery articles	130	237	546	
Miscellaneous manufacturing industries	13485	13444	16944	103
Scientific, medical & surgical instruments & equipments	51	162	1491	19
INSTRUCTION	3930	5503	5435	7
Construction & maintenance of building	3061	3827	3745	5
Construction & maintenance of telegraph and telephone lines		477	478	•
Construction & maintenance of dams, canals, tanks etc.	869	1199	. 1212	:
ECTRICITY, GAS, WATER AND SANITARY SERVICES	50 92	6940	8140	38
Generation & transmission of electric energy	1966	3468	4429	3
Distribution of electric energy	2214	2569	2580	
Gas for domestic & industrial consumers	248	280	280	•
Gas for domestic & industrial consumers Purification & distribution of water	248 664	623	851	

Appendix VII----Contd.

17-1DGE & T/ND/77

1	2	3	4	5
TRADE AND COMMERCE	15218	25852	31579	212
Wholesale trade	6647	10325	12898	56
Retail trade	3410	6758	9159	6 4
Banking	3297	6648	7373	56
Providents & insurances	1864	2121	2149	36
TRANSPORT, STORAGE AND COMMUNICATIONS	12234	16976	19862	349
Transporting by railways	6870	7870	8085	29
Y Transporting by bus services	1810	2087	2106	1
Transporting by motor vehicles (other than omnibus)	645	1888	2837	. 6
Transporting by air	55	62	67	••
Operation of storage	94	146	190	
Postal & telegraphic communication	2054	3 5 33	3687	4
Telephone communication	678	1343	28 36	299
Information & broadcasting	28	47	54	10
SERVICES	6 794 5	84200	96371	10546
Public services in administrative departments & offices of Central Government	20217	21309	21887	156
Public services in administrative departments & offices of Quasi- Government, Local Bodies	3224	4150	5845	183
Public services in administrative departments & offices of State Government	11138	13756	15827	146
Educational services (Technical)	3715	4860	5 3 80	210
Educational services (non-technical)	17542	23794	27615	7174
Scientific services & research institutions	1046	1322	1467	4
Public health & medical services	7329	8358	8900	2631
Religious services	89	117	126	
Legal services	12	12	12	••
Business services	86	112	137	••
Community services	863	1189	1808	25
Recreation services	513	755	957	••
Hotels & restaurants	1600	3414	4976	14
Laundry services	358	647	857	3
Personal services	213	405	575	
Total]	207084	273450	326929	13146

Appendix VII-Contd.

Appendix V	III
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Employment growth by occupation

	Num	Number of employed 1967 1974 2 3 24123 32328 4662 6380 722 789 28 2 2 66 61 192 311 253 335 131 300 38 112 16 35 9 73 182 297			
Occupation	1967	1974	197		
1	2	3	4		
(i) PROFESSIONAL, TECHNICAL & RELATED WORKERS	24123	32328	3903		
Scientists, engineers & Technolgists	4662	6380	7 58		
Chemists	722	789	9 6		
Geologists & Geophysicists	••	28	2		
Metereologists	2 -	- 2 -			
Physical Scientists	66	61	(
Physical Science Technoians	192	311	34		
Civil Engineers	253	335	38		
Electrical Engineers	131	300	39		
Mechanical engineers—Production	38	112	12		
Mechanical engineers-Automobile	16	35	4		
Mechanical engineers—Aeronautical	9	73	1		
Mechanical engineers—Other	133	227	3		
Chemical engineers	15	67	10		
Metallurgists	10	15	2		
Mining engineers	2	2	3		
Industrial engineers	43	101	10		
Surveyors	4	7			
Works Inspectors, engineering	1	77	. 8		
Textile technologists	. 96	117	17		
Spinning & Weaving Masters	58	65	Ĩ		
Dyeing, bleaching & printing masters	28	42	4		
Rubber technologists	7	88	10		
Engineers & technologists—other	14	35	5		
	64	96	9		
Draughtsmen—civil	269	337	45		
Draughtsmen—Mechanical	. 7	12	1		
Draughtsmen-other	332	535	60		
Overseers—civil engineering	25	50	4		
Permanent way inspectors & other civil engineering technicians	98	150	15		
Technicians—Telecommunication	152	140	19		
Technicians-Electrical & Electronic	265	257	26		
Technicians—Acronautical engineering	1205	1140	131		
Technicians-Mechanical engineering	11	1110	151		
Techncians—Chemical engineering	12	10	1		
Technicians-Survey	181	227	5		
Tracers, blue printers & other technicians	49	72	7		
Biologists, Zoologists & Botanists					
Bacteriologists & Pharmacologists	8 -	24	3		
Silviculturists & wood anatomists	48	92 995	9 20		
Agronomists & agricultural scientists	167	285	30		
Life Science Technicians	29	50	9		
(ii) Doctors and medical and health technicians	2401	3058	346		
Physicians & Surgeons—Allopathic	318	379	40		
Physicians, Ayurvedic & Unani	49	55	6		

1	2	3	
Physicians, Homeopathic	19	23	2
Dentists	••	2	
Veterinarians		18	4
Chemists, Pharmaceutical	25	54	7
Pharmacists	465	527	56
Health Officers	10	11	1
Vaccinators & Dressors	224	302	30
Veterinary Assistants	223	300	36
Laboratory Assistants, Pharmaceutical	59	78	8
Nurses	448	508	63
Midwives & health visitors	142	276	27
X-ray technicians	21	30	3
Physiotherapists & Occupational therapists	••	3	
Nursing & Midwifery Attendants	313	422	48
Sanitary inspectors & daroghas	62	54	6
Scientific, Medical & Technical persons—other	10	16	4
(iii) Teachers	14636	19385	2386
University & College TeachersArts	430	515	90
Commerce	38	42	12
Education	33	57	8
Law	22	37	5
Science	297	355	45
Engineering	68 9	949	112
-Medicine & Surgery	149	211	25
Agriculture	120	115	11
-Other subjects	6	19	8
Secondary School Teachers	3056	3744	459
Middle & Primary School Teachers	9182	12443	1505
Teachers—Infant School	444	642	74
Manual Training & Art Teachers	75	85	10
Teachers—Other	95	171	17
(iv) Accountants, Soical Scientists & other Professionals	2424	3505	411
Statisticians	26	24	2
Actuary	1	1	
System analyst & programmers	••	17	1
Statistical assistants	22	44	4
Economic investigators	38	106	10
Accountants & auditors	1013	1404	165
Cost accountants	5	8	1
Psychologists	••	1	
Librarians, archivists & Curators	52	75	10
Translators	6	9	1
Personnel & Occupational specialists	23	40	3
Family planning organisers	47	170	17
Village level workers	179	227	22
Labour & Social Welfare workers	164	175	19
Jurists	85	79	8
Poets, authors, journalists & related workers	32	61	7
Sculptors, painters, photographers and related creative artists	53	65	6
Composers & performing artists	88	214	35
	14	29	3
Priests & purchits	14		
	14 19 557	38 718	4 82

Appendix VIII-Contd.

Appendix VIII—Contd.

	1	2	3	4
II.	ADMINISTRATIVE, EXECUTIVE & MANAGERIAL WORKERS	9479	16830	22317
	Administrative & executive officials, Union Government	241	397	434
	Administrative & executive officials, State Government	1184	1124	1173
	Administrative & executive officials, Quasi-Government	106	189	435
	Administrative & executive officials, Local bodies	140	122	122
	Working proprietors, directors & managers—Whole sale trade	1991	3249	4157
	Working proprietors, directors & managers—Retail trade	1096	2014	2682
	Directors & managers—Bank	273	797	885
	Directors & Managers—Insurance	234	257	257
	Working proprietors, directors & managers—Mines, Construction Gas & electri- city	29	31	31
	Working proprietors, directors & manages—Manufacturing	3384	7088	9940
	Working proprietors, directors & managers—Transport, Storage & Communicat- ion	261	514	
	Working proprietors, directors & managers—Lodging & Catering	201		731
	Working proprietors, directors & managers—Recreation & entertainment	404 81	650	969
	Working proprietors, directors & managers – Other services	175	111	129
			287	372
	CLERICAL & RELATED WORKERS	27398	37398	42271
	Section officers	806	1265	1327
	Other supervisors & inspectors	817	1073	1271
	Office assistants	2505	4027	4340
	Village ofilicials Stenographers & Stenotypists	1071	1035	1062
	Typists & teletypists	577	925	1084
	Key punch & Verifying machine operators	716	927	1028
	Book-keepers, accounts & audit clerks	45	82	82
	Bank & ledger clerks	368	458	527
	Cashiers	2011	3846	4827
	Book-keeping & Calculating machine operators	837 90	1416	1556
	Automatic data processing machine operator	- •	161	159
	Clerks	••	5	5
	Store-keepers & related workers	11888	13629	15321
	Receptionists	1234	1865	2125
	Time keepers	28	48	60
	The repers	110	132	145
	Ticket collectors, checkers & examiners	432	661	849
	Bill collectors	341	260	268
		872	1098	1218
	Clerical & related workers—Other	94	150	163
	Station masters—Transport	65	65	65
	Post-masters, Telegraph masters & other supervisors	36	628	628
	Transport & Communication Supervisors n.e.c.	238	259	265
	Guards—train	44	41	41
	Bus conductors	468	555	565
	Mail distributors & related workers	1410	2204	2276
	Telephone & telegraph operators	39 5	583	1014
IV.	SALES WORKERS	3200	6002	7915
)	Field officers—Insurance	58	73	7515
5	Sales supervisors—Wholesale & retail trade	44 •	36	37
1	Purchasing, selling & manufaturers agents	33	77	133
-	Fechnical salesmen & Commercial travellers	83	153	155
ŝ	Salesmen, shop assistants & related workers	3044	5636	
	Propagandists, Finance agents & money lenders	18	27	7472
	SERVICE WORKERS			31
	House keepers, matrons & stewards	7563 11	12609	14445
	Cooks & Cook bearers		21	30
		1057	1881	2591

Appendix VIII--Contd.

. 1	2	3	4
Butlers, bearers, waiters & bartenders	887	1540	209
Maids & related house keeping service workers	760	1008	121
Building caretakers	79	86	8
Launderers, dry-cleaners & pressers	378	708	9 5
Hair dressers & barbers	108	250	32
Protective Service Workers	4281	7112	714
Tourist Guides	2	3	4
/I. FARMERS, FISHERMEN, HUNTERS, LOGGER & RELATED WORKERS	802	1653	192
Farm, plantation, dairy & other managers & supervisors	146	205	20
Farmers, Live stock, dairy & poultry	78	105	12
Farm machinery operators	6	36	4
Farm workers—Animals & birds	112	330	42
Gardeners & Nursery Workers	457	949	108
Forestry workers	3	28	3
Forestry workers Fishermen & related workers			
	••	••	ć
II. PRODUCTION & RELATED WORKERS AND TRANSPORT EQUIPMENT OPERATORS	96461	120003	14348
(i) Production & related workers	93581	115988	13905
Miners & Quarrymen	17	10	1
Mineral treaters	584	742	74
Supervisors & foreman—metal smelting, converting & refining	139	149	24
Metal smelting, converting & refining furnaceman	93	166	2.4
Metal smering, converting & retning furnaceman	446	559	80
Metal rolling mill workers Metal melters & re-heaters	935	921	
			108.
Metal casters	43	55	6
Moulders & Core makers	414	618	933
Metal annealers & temperers	165	148	15
Metal drawers & extruders	152	3 68	523
Metal plators & coaters	92	191	23
Metal processorsOther	207	237	30
Supervisors & foreman—wood preparation & paper making	3	9	1
Wood sawyers & related wood processing workers	255	571	85
Paper pulp & paper makers	70	105	15
Supervisors & foremen-Chemical processing	385	635	969
Grushers, grinders & mixers-Chemical	505	718	81:
Cookers, roasters & heat treaters—Chemical	104	547	68
Filter & separator operators-Chemical	11	18	20
Still & reactor operators—Chemical	64	63	6
Chemical processors—Others	410	773	115
Jobher (Textile)	696	634	642
Supervisors & foremen—Spinning, Weaving, Knitting & Dyeing	571	956	980
-	3454	4 2 22	4350
Fibre preparers	1394	1258	
Drawing, slubbing & inter tenters	2538	2618	1263
Piecers			268
Twisters	481	635	638
Realers (Textile)	673	589	59
Spinners & Winders-Other	6629	8042	8824
Spinning & Winding operatives	6682	6139	6180
Warpers & sizers	880	968	980
Weaving & Knitting machine setters and pattern card preparers	3201	1609	1623
Weavers—Powerloom	10416	10691	10822
Weavers—Handloom	443	642	1015
Weavers & drawers—Others	809	869	91 6
Drawing & Weaving operatives	51 7	545	851

Appendix `	VIII Contd.
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1	2	3	
Knitters	82	185	3
Bleachers, dyers & textile product finishers	528	743	9
Bleaching, dyeing, printing & finishing operatives	2101	2019	21
Spinners, weavers, knitters, dyers and related workers n.e.c.	522	765	2
Supervisors & foreman, tanning and pelt dressing	17	38	
Tanners & fell mongers	580	1116	13
Supervisors & foreman, Food & beverage processing	41	146	
Grain millers, parchers & related workers	572	978	1
Crushers & pressers—oil seeds	151	348	5
Khandsari, Sugar & Gur makers	9	10	
Food preservers & Canners	2	4	
Dairy product processors	22	64	
Bakers, Confectioners & Sweet-meat makers	457	977	- 1
Browers, aerated water & beverage makers	30	279	
Tobacco preparers & tobacco product makers	100	203	-
Supervisors & foreman, tailoring dress making, sewing & upholstry	298	203	
Tailors & dress makers	298 5439	5755	6
Pattern makers & Gutters	267	923	1
Sewers & embroiders		923 1071	1
Upholsterers & related workers	536 107	216	1
	9	210 96	
Supervisors & foremen, Shoe & leather goods making		588	1
Shoe makers & repairers	186	2196	1
Shoe cutters, lasters, sewers & related workers	546		1
Harners & Saddle makers	1124	1739	1
Leather goods makers	247	552	
Supervisors & foremen, Carpentry Cabinet making & related wood working process	2	12	
Carpenters	1115	1146	1
Carpentry & Joinery operatives	68	132	-
Furniture & Cabinet makers	67	182	
Wood working machine operators	35	59	
Coach & body builders	55 7	32	
Carpenters, Cabinet makers & related workers, other	77	151	
Stone cutters & carvers]		4	
Supervisors & foremen, blacksmithy	•• 34	35	
		- 35 190	
Supervisors & foremen, tool making	190	190 60	
Supervisors & foreman, machine tool operations	41		1
Blacksmiths	506	742	1
Hammers & stampermen	334	360	c
Smithy operatives	2474	2569	5
Markers, metal	75	38	
Tool makers & metal pattern makers	191	195	
Machine tool setters	378	395	
Machinists	2829	3004	
Turners & lathe operators	1291	1658	
Shapers, planners, sloters & millers	154	318	
Gear cutters	160	162	
Drillers & borers	86	. 141	
Machine tool operatorsother	406	622	
Metal grinders, polishers & tool sharpeners	375	558	
Power press operators & metal stampers	203	181	
Tool makers & machine tool operators-other	81	238	
Supervisors & foremen, machinery fitting & repairing	38	159	
Supervisors & foremen, motor vehicle repairing	56	87	
Supervisors & foremen, Aircraft repairing	45	64	
Supervisors & foremen, precision instrument making (except electrical)	8	15	

Watch, clock & precision instrument makers (except electrical) Fitters Assemblers, textile machinery Machinery fitters & machine assemblers Motor vehicle mechanics Aircraft engine machanics Mechanics, petrol & diesel engine Tractor mechanics Millwright Mechanics, textile machinery Mechanics, Refrigeration & Air-conditioning Fitters, bicycle Mechanics & repairmen-other Overhauling & repairing operatives Viewers-workshop Muchine assemblers & machinery fitters n.e.c. Supervisors & foremen, electrical and electronic equipment Engineering supervisors & inspectors telephone & telegraph Electrical supervisors & wiring Line supervisors-electrical Electricians Mechanics precision instruments electrical Electrical fitters Electricians, electrical repairmen and related electrical operatives **Electronics fitters** . . Electrical & electronics equipment assemblers Radio & television mechanics and repairmen Electrical wiremen Telephone & telegraph installers and repairmen Electric Linemen & Cable Jointers Armature winders Battery servicemen & repairers Electrical & electronic workers-other Supervisors broadcasting, audio-visual, projection & sound equipment oper-ations **Cinematograph** operators Supervisors & foremen, plumbing & pipe fitting Supervisors & foremen, welding Supervisors & foremen, Sheet metal Plumbers & pipe fitters Welders & flame cutters Sheet metal workers Tin smiths Sheet metal working operatives Metal plate & structural metal workers Jewellers, gold smiths & silver smiths Other metal engravers Supervisors & foremen-glass forming, pottery & related activity Glass formers, cutters, grinders & finishers Potters, Kilnmen, engravers etchers & related workers Supervisors & foremen-Rubber goods making Supervisors & foremen-Plastic product making Plastic product makers Rubber product makers Tyre makers & Vulcanisers Paper & paper board product makers

Appendix VIII-Contd.

1	2	3	
Supervisors & foremen-Printing & related work	7	22	
Compositors	217	410	5
Type setters & photo-type setters	14	32	
Printing pressmen	346	617	9
Stereo-typers & electro-typers	4	3	
Engravers printing	1	4	
Photo engraver	15	19	
Book-binders & related workers	126	229	3
Photographic dark room workers	25	52	
Printers & related workers, n.e.c.	1	6	
Painters	337	533	
Production & related workers, n.e.c.	924	835	11
Bricklayers & other construction workers	479	662	e
Boiler supervisors	5	4	
Supervisors & foremen-Stationary engine & related equipment	3	6	
Electrical switch board operators	104	106	1
Air conditioning & refrigeration Plant attendants	59	91	1
Pump-men	251	372	4
Stationary engine & related equipment	422	522	5
Operators-other			
Boilermen & firemen	587	707	8
Oilers & greasers	1195	1605	17
Supervisors & foremen-material and freight handling	101	98	
Supervisors & foremen-Checking, sorting, packing & related activity	9	6	
Rigger & slingers	109	181	1
Crane & hoist operators	178	193	1
Earth moving & related machinery operators	72	115	1
Checkers, testers, sorters, weighters and counters	656	1640	17
Packers, labellers & related workers	1027	1594	20
Tractor drivers-construction	13	23	
Liftmen	47	57	
(ii) Transport equipment operators	2880	4015	44
Boatmen	4	4	
Driversrailways	595	624	6
Firemen—railways	347	349	3
Pointsmen, signalmen & shunters-railways	111	143	1
Trolley & train drivers	25	17.	
Drivers-car	499	79 9	8
Driversambulance	24	28	
Driversbus	501	589	6
Drivers-truck	442	809	9
Drivers-fire brigade vehicles	62	80	
Drivers—other vehicles	52	78	
Drivers-Animal drawn vehicles	6	9	
Drivers—cyclc rickshaw	194	465	6
Traffic hand, gliding	9.	. 4	
Hand cart men	9	17	
Unskilled	37978	46627	555
GRAND TOTAL	207084	273450	3269

Appendix VIII—Concld.

Appendix IX

Manpower Requirements

Occupation	Manpower Requir ments by 1979
1	2
I. PROFESSIONAL, TECHNICAL & RELATED WORKERS	1090
(i) Scientists, engineers & technologists	2153
Chemists	333
Geologists & Geophysicists	:
Physical scientists	
Physical science technicians	7
Civil engineers	10
Electrical engineers	12
Mechanical engineers—Production	2
Mechanical engineers-Automobile	1
Mechanical engineers—Aeronautical	4
Mechanical engineers—Other	12
Chemical engineers Metallurgists	5 1
Mining engineers	3
Industrial engineers	1
Surveyors	
Works inspectors, engineering	1
Textile technologists	7
Spinning & weaving masters	
Dycing, bleaching & printing masters	
Rubber technologists	3
Engineers & technologists-Other	2
Draughtsmen-Civil	1
Draughtsmen-Mechanical	17
Draughtsmen—Other	
Overseerscivil engineering	15
Permanent way inspectors & other civil engineering technicians	
Technicians—Telecommunication	1
Technicians-Electrical & electronic	9
Technicians—Aeronautical engineering	33
Technicians-Mechanical engineering	34
Technicians—Chemical engineering	
Technicians—Survey	2
Tracers, blue printers & other technicians	58

Appendix	IX-Contd.
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I		2
Biologists, zoologi	sts & botanists	12
Bacteriologists & l	Pharmacologists	1:
Silviculturists & w	rood anatomists	•
Agronomists & ag	ricultural scientists	49
Life science techni	cians	40
(ii) Doctors and medie	cal & health tech n icians	980
Physicians & surge	eons—allopathic	194
Physicians, Ayurve	edi c & Unani	10
Physicians, Homoe	eopathic	:
Veterinarians		24
Chemists, pharmac	ceutical	23
Pharmacists		100
Health officers		1
Vaccinators & dre		86
Veterinary assistan		97
-	nts, pharmaceutical	11
Nurses		213
Midwives & health	n visitors	51
X-ray technicians		23
Nursing & midwife		105
Sanitary inspectors		12
Scientific, medical	& technical personsother	28
(iii) Teachers	were then the	6778
University & Colle		442
	Commerce Education	86
		32
	—Law —Science	18
		133
	Engineering	279
	Medicine & Surgery	63
	Agriculture	16
	-Other subjects	70
Secondary School t	eachers	1248
Middle & Primary	School teachers	4169
Teachers—infant se	chool	171
Manual training &	art teachers	25
Teachers-other		26
(iv) Accountants, social	scientists & other professionals	990
Statisticians		5
System analyst & p	rogrammers	2
Statistical assistants		10

1	2
Economic investigators	11
Accountants & auditors	394
Cost accountants	6
Psychologists	6
Librarians, archivists & curators	43
Translators	3
Personnel & occupational specialists	5
Family planning organisers	23
village level workers	23
Labour & social welfare workers	38
Jurists	18
Poets, authors, journalists & related workers	18
Sculptors, painters, photographers and related creative artists	8
Composers & performing artists	165
Priests & purchits	11
Physical training instructors & sports coach	13
Laboratory attendants	188
IL ADMINISTRATIVE, EXECUTIVE & MANAGERIAL WORKERS	7246
Administrative & executive officials, Union Government	90
Administrative & executive officials, State Government	192
Administrative & executive officials, Quasi-Government	297
Administrative & executive officials, Local bodies	12
Working proprietors, directors & managers-Wholesale trade	1233
Working proprietors, directors & managers-Retail trade	869
Directors & managers-Bank	168
Directors & managers—Insurance	26
Working proprietors, directors & managers—Mines, Construction Gas & Electricity	3
Working proprietors, directors & managers-Manufacturing	3561
Working proprietors, directors & managers—Transport, Storage & Communication	268
Working proprietors, directors & managers-Lodging & Catering	384
Working proprietors, directors & managers-Recreation & entertainment	29
Working Proprietors, directors & managers—other services	114
111. CLERICAL & RELATED WORKERS	8952
Section Officers	207
Other supervisors & inspectors	322
Office assistants	773
Village officials •	131
Stenographers & Stenotypists	281
Typists & teletypists	212
Key punch & Verifying machine operators	8
Book-keepers, accounts & audit clerks	116
Bank & ledger clerks	1367

Appendix IX—Contd.

1 2 Cashiers 283 Book-keeping & Calculating machine operators 20 Clerks **319**2 Store-keepers & related workers 495 Receptionists 17 Time keepers 26 Ticket sellers 254 Ticket collectors, checkers & examiners 34 Bill collectors 231 Clerical & related workers-other 30 Station masters-Transport 6 Post masters, Telegraph masters & other supervisors 64 Transport & Communication supervisors-n.e.c. 32 Guards-train 4 Bus conductors 66 Muil distributors & related workers 292 Telephone & telegraph operators **48**6 IV. SALES WORKERS 2513 Field officers-insurance 10 Sales supervisors-Wholesale & retail trade 5 Purchasing, selling & manufacturers agents 64 Technical salesmen & Commercial travellers 28 Salesmen, shop assistants & related workers 2399 Propagandists, Finance agents & money lenders 7 V. SERVICE WORKERS 3150 House keepers, matrons & stewards 11 Cooks & cook bearers 898 Butlers, bearers, waiters & bartenders 706 Maids & related house keeping service workers 303 **Building** caretakers 12 Launderers, dry-cleaners & pressers **3**20 Hair dressers & barbers 102 Protective service workers 797 Tourist guides 1 VI. FARMERS, FISHERMEN, HUNTERS, LOGGERS & RELATED WORKERS 444 Farm, plantation, dairy & other managers and supervisors 20 Farmers, livestock, dairy & poultry 34 Farm machinery operators 13 Farm workers-Animals & Birds 127 Gardeners & nursery workers 2**3**9 Forestry workers 8 Fishermen & related workers 3

Appendix IX-Contd.

1	2
VII. PRODUCTION & RELATED WORKERS AND TRANSPORT EQUIPMENT OPERATORS	43374
(i) Production & related workers	42526
Miners & Quarrymen	1
Mineral treaters	74
Supervisors & foremen-metal smelting, converting & refining	108
Metal smelting, converting & refining furnacemen	134
Metal rolling mill workers	306
Metal melters & re-heaters	261
Metal casters	26
Moulders & core makers	44(
Metal annealers & temperers	18
Metal drawers & extruders	191
Metal platers & coaters	81
Metal processorsother	90
Supervisors & foremenwood preparation & paper making	3
Wood sawyers & related wood processing workers	341
Paper pulp & paper makers	63
Supervisors & foremen—Chemical processing	1 7 6
Crushers, grinders & mixersChemical	166
Cookers, roasters & heat treaters-Chemical	195
Filter & separator operators—Chemical	10
Still & reactor operators—Chemical	9
Chemical processors—others	46 6
Jobber (Textile)	71
Supervisors & foremenspinning, weaving, knitting & dyeing	126
Fibre preparers	1037
Drawing, stubbing & inter tenters	146
Piecers	385
Twisters	167
Reelers (Textile)	61
Spinners & Winders—other	1598
Spinning & Winding operatives	692
Warpers & sizers	109
Weaving & knitting machine setters and pattern card preparers	179
Weavers-powerloom	1200
Weavers-handloom	449
Weavers & drawers—others	152
Drawing & weaving operatives	7 05
Carpet & dari weavers	669
Knitters	120
Bleachers, dyers & textile product finishers	275
Bleaching, dyeing, printing & finishing operatives	288

Appendix IX—Contd.

Appendix IX-Contd.

Ι	2
Spinners, weavers, knitters, dyers and related workers, n.e.c.	88
Supervisors & foremen, tanning and pelt dressing	25
Tanners & fellmongers	704
Supervisors & foremen, food & beverage processing	21
Grain millers, parchers & related workers	63 6
Crushers & pressersoil seeds	196
Khandsari, Sugar & Gur makers	115
Food Preservers & Canners	3
Dairy product processors	22
Bakers, confectioners & sweet-meat makers	892
Brewers, aerated water & beverage makers	28
Tobacco preparers & tobacco product makers	125
Supervisors & foremen, tailoring dress making, sewing & upholstry	21
Tailors & dress makers	33 02
Pattern makers & cutters	609
Sewers & embroiders	498
Upholsterers & related workers	135
Supervisors & foremen, shoe & leather goods making	10
Shoe makers & repairers	477
Shoe cutters, lasters, sewers & related workers	461
Harness & saddle makers	1499
Leather goods makers	3 35
Supervisors & foremen, Carpentry Cabinet making & related wood working process	5
Carpenters	590
Carpentry & Joinery operatives	57
Furniture & cabinet makers	95
Wood working machine operators	44
Coach & body builders	26
Carpenters, Cabinet makers & related workers, other	77
Stone cutters & carvers	4
Supervisors & foremen, blacksmithy	17
Supervisors & foremen, tool making	65
Supervisors & foremen, machine tool operations	41
Blacksmiths	493
Hammermen & stampers	287
Smithy operatives	1016
Markers, metal	53
Tool makers & metal pattern makers	520
Machine tool setters	148
Mechanists	1199
Turners & lathe operators	842
Shapers, Planers, Sloters & millers	180

, , , , , , , , , , , , , , , , , , ,	
1	2
Gear Cutters	69
Drillers & borers	36
Machine tool operators-other	3 58
Metal grinders, polishers & tool sharpners	434
Power press operators & metal stampers	142
Tool makers & machine tool operatorsother	135
Supervisors & foremen, machinery fitting & repairing	37
Supervisors & foremen, motor vehicle repairing	44
Supervisors & foremen, Aircraft repairing	27
Supervisors & foremen, precision instrument making (except electrical)	2
Fitters	. 1565
Assemblers, textile machinery	53
Machinery fitters & machine assemblers Motor vehicle machenics	250 644
	158
Aircraft engine mechanics	136
Mechanics, petrol & diesel engine	39
Tractor mechanics	22
Mill wright	156
Mechanics, textile machinery	162
Mechanics, Refrigeration & Airconditioning	28
Fitters, bicycle	90
Mechanics & repairmen-other	49
Overhauling & repairing operatives	214
Viewers-workshop	167
Machine assemblers & machinery fitters, n.e.c.	77
Supervisors & foremen, electrical & electronic equipment	177
Engineering supervisors & inspectors telephone & telegraph	157
Electrical supervisors—wiring	22
Line supervisors—electrical	17
Electricians	542
Mechanics precision instruments electrical	7
Electrical fitters	202
Electricians, electrical repairmen and related electrical operatives	88 51
Electronics fitters	80
Electrical & electronics equipment assemblers	80 30
Radio & television mechanics & repairmen	140
Electrical wiremen	304
Telephone & telegraph installers & repairmen Electric linemen & cable jointers	554
Armature winders	29
Battery servicemen & repairers	58
Electrical & electronic workers—other	13
Supervisors broadcasting, audio-visual, projection & sound equipment operations	15
Cinematograph operators	15
Supervisors & foremen, plumbing & pipe fitting	- 15
Supervisors & foremen, Welding	2
Supervisors & foremen, sheet metal	5
Plumbers & pipe fitters	29
Welders & flame cutters	829
Sheet metal workers	- 219
Tin smiths	219
Sheet metal working operatives	247
Metal plate & structural metal workers	79
Jewellers, goldsmiths & silver smiths	39
Towners' Borrenting of attact attactor	5.

1	2
Other metal engravers	148
Supervisors & foremen-glass forming, pottery & related activity	2
Glass formers, cutters, grinders & finishers	228
Potters, kilnmen, engravers, etchers & related workers	373
Supervisors & foremen—Rubber goods making	44
Supervisors & foremen—Plastic product making	10
Plastic product makers	598
Rubber product makers	174
Tyre makers & vulcanisers	141
Paper & paper board product makers	88
Supervisors & foremen—Printing & related work	4
Compositors	194
Type setters & photo-type setters	11
Printing pressmen	372
Engravers printing	1
Photo engraver	10
Book-binders & related workers	155
Photographic dark room workers	23
Printers & related workers, n.e.c.	5
Painters	249
Production & related workers, n.e.c.	412
Brick layers & other construction workers	185
Supervisors & foremen—stationary engine & related equipment	2
Electrical switch board operators	30
Air-conditioning & refrigeration plant attendants	38
Pump-men	91
Stationary engine & related equipment operatorsother	70
Boilermen & firemen	183
Oilers & greasers	361
Supervisors & foremen-material & freight handling	17
Supervisors & foremen-checking, sorting, packing & related activity	4
Rigger & slingers	35
Crane & hoist operators	21
Earth moving & related machinery operators	14
Checkers, testers, sorters, weighers and counters	406
Packers, labellers & related workers	627
Tractor drivers—construction	10
Lift-men	11
(ii) Transport equipment operators	848
Drivers-railways	63
Firemen—railways	35
Pointsmen, signalmen & shunters—railways	15
Trolley & train drivers	2
Drivers-car	123
Drivers-ambulance	8
Drivers-bus	73
Drivers—truck	249
Drivers-fire brigade vehicles	10
Drivers, other vehicles	10
Drivers—Animal drawn vehicles	4
Drivers—cycle rickshaw	249
Hand cart men	7
Unskilled	13821
GRAND TOTAL	90407

Appendix IX—Goncld.

Appendix X									
EDUCATIONAL & TRAINING FACILITIES									

Part (a) Details of Educational Institutions

Sl. No.	Mante & Address	Courses Taught	Duration of course	Minimum ad- mission require- ment		Details of awards			Tuition	Scholarship	Month of	Sancti	ion-
						Nature of title	Whether	Authority confiming awards	fees (Rs.)	on stipend	commen- cement	ed Intake capacity for each course	
	2	3	4	5	6	7	8	9	10	11	12	13	1
	Arjun M thila Shilp Kala Kandiy, 115 Plot No., O. Block, Kidwai Nagar,	Tailoring Hund embro-	2 Yrs.	VIII		Certificate	Yes	. <u></u>			April		25
Kallpur (U.P.)	idery Muchine embroidery	>> >>	33 37		39 93	>> >>				»»		25 25	
	Amar Mahila Shilp Kala Kendra 109/405 Nahara M	Tailoring	1 Yr.	37		Certificate	No.		5 .0 0 p.m.		••		ı.
	109/405, Nehru Nagar, Kanpur, U.P.	Embroidery	,,	"		**	,,		5.00 p.m.		•.•		••
	Acharya Narander Dev Municipal Committee,	M.A. English M.A. Hindi	2 Yrs.	B.A.		Post-Graduate			19.00 p.m.		July ,,		50 50
		M.A. Sunskrit	"	,,			,, ,,		,,		,,		60
	Harsh Nagar, Kanpur	M.A. Art	3,	,,			,,		,,		,,		15
		M.A. Psychology	,,	,,			,,		"		**		100
		M.A. Economics	**	**			,,		**		,,		50
		M.A. History M.A. Political	**	23			*5		"		••		25 50
		Science M.A. Sociology	,,	,,			ود		,,		,,		100
		M.A. Sociology M.Sc. Botany M.Ed.	,, ,,	B.Sc.			**		,, 23.00 p.m. 29.00 p.m.		,, ,,		50 50
		B.Ed.	1 yr.	B.A.		Graduate	Yes		25.00 p.m.		,,		250
4.	Aghnihotri Type School, Kurswan, Kanpur, U.P.	English		High School		Certificate	No		7.00 p.m.				12
	Adersh Shilp Kala Kendra, Jaggai Purwar, Kanpur, U.P.	Sewing	>>	VIII		Certificate	No		8.00 p.m.		••,		30
	Arun Commercial Institute, Hurjendra Nagar, Kanpur	English Typing Eng. Shorthand	73 33	High School		Certificate	No		6.00 p.m.		- 4		4
7.	Adersh Muhila Shilp Kula Kender, Adersh Vikush Mundle, Ajit Ganj, Kanpur	Sewing	6 months/ 1 year	vin		,, Certificate	,, No		у, 2.00 р.т.				25
	Auxili iry Midwifery Training, Shanya Suya Minj, Kanpur	Nursing Training	2 years	"		Diploma	Yes		*1		March/ Sept.		80
	Anand Tailoring College, Krishna Nagar, G.T. Road Kanpur	Tailoring	l year	Literate		Certificate	Yes		8 p.m.		July		25

10.	Arun Type College, 128/8D, Kidwai Nagar, Kanpur	Typing Eng. Shorthand Eng.	6 months	Matric "	Certificate	Yes	8 p.m. 10 p.m.	••	105 20
11.	A.M.H. and Duffrin Hospital Parade, Kanpur	Midwifery	3 yrs.	High School	Diploma	Yes	••	August	158
12.	Nagar Mahapalika, Acharya Narendra Deo Degree College (Women), Kanpur	B.Sc.	2 yrs.	Intermediate	Graduate		19 p.m.	July	149
13.	Bharat Type-writer Institute, Karachi Khanna, Kanpur	Typing Eng.	6 months	High School	Certificate	No	7 p.m.	E .4	10
14.	B.S. Kalara & Co., 59141 Barinana Road, Kanpur	Chartered Accountant	4 yrs.	B.Com.	Certificate	Yes		••	10
15.	B.N. Chaturvedi & Co., 24/67 Birhana Rd., Kanpur	Chartered Accountant	4 yrs.	Graduate	Certificate	Yes	-	8 .4	7
16.	Bindu Type Institute, Harrindra Nagar, Kanpur, U.P.	English Typing	6 months	VIII	Certificate	No	6 p.m.	~	6
17.	Bhartiya Sangit Kala Mandir, 1281 M. Block, Kidwai Nagar, Kanpur	Music	1 year	Literate	Certificate		6.50 p.m.		14
18.	Babu Mahila Shilp Kala	Sewing	6 mon.	Literate	Certificate		2 p.m.	••	20
	Kender, 2/3, Bagum Purwa, Ajitganj No. 2, Kanpur-23	Embroidery	6 mon.	Literate	,,		2 p.m.		9
19.	Vajpai Typing College,	Hindi & English	6 mon.	High School	Certificate	NT-	2		10/10
	104/278, P. Road, Kanpur	Typing Shorthand	6 mon.	nigh School	,,	No ,,	7 p.m. 8 p.m.	••	10/10 10
20.	Bombay Motor Driving	Motor Driving	3 mon.	Nil	Certificate	در	340 p.m.		60
	School, Near Vivek taki, Vivek Buldg., Kanpur	Motor Car Driving	2 mon.	Nil	,,	37	290 p.m.	••	60
21.	Bhartiya Vidyalaya Tailoring	Tailoring Tailoring	1 year 2 years	Literate	Certificate	Yes	6.50 p.m.	July	50
	Institute, 54, Naya Ganj, Kanpur	Tanoring	2 years	33	3 3	33	5. 20 p.m.	7 2	50
22.	Berhwa Nand Degree College, D. Mal, Kanpur	B.Sc. Maths B.Sc. Physics	2 yrs.	Inter	Graduate	Yes	22.50 p.m.	"	70 60
	College, D. Mai, Ranpu	B.Sc. Zoology	»» »	>> >>	,, ,,	>> >>	20.25 p.m.	,, ,,	200
		B.Sc. Botany	1 yr.	> >	,,	33	,,	,,	200
		L.L.BI L.L.BII	3 yrs. 2 yrs.	Graduate	**	,,	20.10 p.m.	,,	20 40
		B.Sc. Chemistry	2 yrs.	Inter	»»	3) 73	20.25 p.m.	»» »	100
23.	Berhma Nand Degree College, Kanpur	B.Sc. (Phy. Chy. & Maths) B.Sc. (Phy. Zoo-	2 yrs.	Inter	Graduate	•	19.00 p.m.	July	239
		logy, Botany) L.L.B.	2 yrs. 3 yrs.	,, Graduate	33 33		19.00 p.m. 20.00 p.m.	>>	400 280

	<u> </u>											
1	2	3	4	5	6	7	8	9	10	11	12	13
24.	C.L. Kandria & Co., 58/53, Brihana Rd., Kanpur	Chartered Accountant	4 yrs.	B.A.	<u>_</u> <u>_</u>	Certificate	***		-			2
25.	Central College of Management, 9/63, Arya Nagar, Kanpur	Diploma in Business Mngt. Dip. in Marke-	1 yr.	B.A.		Diploma	Yes		67 annual		July/Aug.	15
	Nagar, Kalipur	ting Mngt. Dip. in Com-	l yr.	"		33	"		67 ,,		**	15
		pany Mngt.	2 1 yrs.	"		**	,,		100 per		Oct.	15
26.	Raj Kiya Diksha Vidiyalaya, Narval, Kanpur	B.T.C.	1 yr.	High School lst Cl. Inter Hnd Class		Certificate	Yes		Year		August	150
				Graduate 2nd Class								
27.	Christ Church College, The Mall, Kanpur	B.Sc.	2 yrs.	Inter II		Graduate level	Yes		270 annual		July	300
	The Man, Manput	M.Sc. Chemistry	2 yrs.	B.Sc.		Post Graduate & Doctorate level	"		327 annual		"	24
		Physics	2 yrs.	B.Sc.		,,	,,		327 annual		,,	10
		Botany	,,	,,		,,	,,		327 annual		•,	10
		Zoology	,,	,,		"	,,		327 annual		,,	6
		Maths M.A.	,,	**		>>	••		255 annual		,,	50
		Hindi	,,	B.A.		"	,,		255 annual		••	60
		English	,,	"		,,	,,		255 annual		,,	60
		E con omi c s	"	**		Post Graduate & Doctorate level	"		255 annual		"	120
		Sociology	,,	,,		,,	,,		255 annual			60
		Pol. Sc.	"	"		,,	,,		255 annual			60
28.	C. Vedara (Principal) Type Centre, Naya Chowk, 40/67, Kanpur	Hindi typing English typing	6 mon. "	High School		Certificate			9 p.m. 7.50 p.m.		14	25 2 5
2 9 .	Principal Central Textile Institute, Gwaltdhi	Textile Technology	3 yrs.	Matric II Cl.		Diploma			120 annual		July	20
	Souterganj, Kanpur	Textile Chemistry	,,	••		••			120 annual		,,	10
		Textile Technology	4 yrs.	Inter II Div.		Graduate level			180 annual		"	20
		Textile Chemistry	"	,,		· >>			180 annual		>>	10
30.	Central Trg. Institute for	Electrician	1 y r .	Matric		Certificate	Yes		15 p.m .		August	20
	Instructors, Govind Nagar, Kanpur, U.P.	Fitter	,,	,,		Diploma or Certificate	,,		10 p.m.		"	40
	* * *	Machinist	,,	,,		• •	,,				,,	3 2

Appendix X-Contd.

		Motor Mech.	l yr.	5 years expe- rience includ- ing time spent in trg.	ertificate	Yes	•••	August	20
		Turner	,,	»»	37	**			32
		Wiremen		,,	**	3 9	••		20
		Welder	>>	**	31	,,	••	32	16
		Cutting & Tailoring	,,	"	**	"	••	,,	20
		Weaving	,,	,,	>>	,,	••	>>	20
		Printing	,,	"	"	**	••	>>	36
31	. Central Trg. Institute for Instructor (Model Trg.	Welder Motor Mech.	l year	VIII	Certificate		Free	August	34 16
	Institute) Govind Nagar,	Cutting &	"	"	**	•.•	> >	"	16
	Kanpur-12	Tailoring	,,	,,	>>	* 277	,,	>>	10
		Electrician	2 yrs.	High School with Science & Maths.	>>	***	:,	دو	32
		Fitter	"	VIII	>>	• •	22	>>	32
	۰. ۱	Machinist	"	"	""	••	33	,,	12
		(Composit) Turner							12
		Witemen	"	"	,,	•••	>>	••	16
		Tool & Die	,, ,,	High School	>> >>		>> >>	· · · · ·	32
		Maker	"	with Science	22		"	"	
		Mechanic Radio & Television	,,	>>	"		"	,,	16
32.	Principal, College of Nursing, G.S.V.M. Medical College Bldg., Kanpur	Post Basic De- gree in Nursing	2 yrs.	Inter Diploma in Nursing & Midwifery 3 yrs. experience as Staff Nurse	"	Yes	-	July	12
3 3.	Narikala Kendra, Gandhi Nagar, Fl. No. 106/67 Gandhi Nagar, Kanpur	Tailoring	2 yrs.	VIII	、 , ,	"	10.50 p.m.	>3	40
3 4.	Daya Nand Women's Trg. College, Mekrobertganj, Kanpur	B.Ed. M.Ed.	1 yr. "	Graduate B.A/Ed/Lt. M.A./B.Ed./ Lt./B.T.	Graduate level Post Graduate Doctorate level	Yes "	18 p.m. 20 p.m.	July/August "	240 24
		M.Ed.	2 yrs.	>>	"	"		"	14
35.	District Manager, Telephone, M.G. Road, Kanpur	Telephone Operator	1 yr.	Depends upon candidate	Certificate	Ycs	40 p.m.	March	20
36.	Pilip Type & Shorthand Institute, 24/8-158, Govind	Hindi Type	6 mon.	H.S.	Certificate	Yes	8 p.m,	At any time	25
	Nagar, Kanpur	Eng. Type	,,	>>	"	,,	> 3	,,	100
		Shorthand	1 yr.	,,	,,	,,	**	,,	25
		(English) Shorthand (Hindi)	1 yr.))	55	3 3	"	,,	25

				5	6	7		9	10	 	13
1	2	3	4	J		· · · · · · · · · · · · · · · · · · ·	0	,	10	 	
37.	Das Type & Shorthand	Hindi Type	6 mon.	H.S.		Certificate	Yes		6 p.m.	At any time	t
	College (Reg.), Govind	Er.g. Type	4 mon.	,,		,,	,,		5 p.m.	,,	15
	Nagar, Kanpur, U.P.	Shorthand	l yr.	,,		**	,,		6 p.m.	,,	:
	Block No. 7 (Opp. Vid-	(English)	•						-		
	yarthi Market)	Shorthand	,,	,,		"	,,		6 p.m.	,,	2
		(Hindi)									
38.	D.B.S. College, Govind	B.Ed.	l yr.	Graduate		Graduate level	,,		27 p.m.	August	480
	Nagar, Kanpur, U.P.	M.A. English	2 yrs.	"		Post Graduate level	"		20 p.m.	July	Unlimit
		M.A. Hindi							20 p.m.	,,	
		M.A. Eco.	,,	,,		**	,,		20 p.m.	**	
		M.A. Pol. Sc.	,,	,,		"	"		20 p.m.	,,	
		M.A. Socielogy	,,	23		**	**		20 p.m.	33	
		M.Sc. Phy.	**	**		,,	**		25 p.m.		2
		M.Sc. Chem.	"	**		"	,,		25 p.m.	33	2: 4
		M.Sc. Maths.	**	,,		"	,,		20 p.m.	,,	
		M.A. History	**	**		Post Graduate	,,		20 p.m.	,,	
		WI.A. History	\$7	**		& Doc. level	,,		20 p.m.	**	
		M.Sc. Zoology	,,	,,		,,	,,		25 p.m.	,,	2
		M.Sc. Botany	,,	"		**	3.9		25 p.m.	>>	2
39.	Daya Nand College of Law,	L.L.B. Ist.	3 yrs.	Graduate		Graduate level	Yes		20.65 p.m.	July	1
	Civil Line, Kanpur	L.L.B. 2nd	2 yrs.	**		,,	,,		29.40 p.m.	,,	13
40.	DAU College, Civil Line, Kanpur	M.A. English	2 yrs.	B.A.		Post Graduate level	Үсз		20.10 p.m.	July	4
	•	M.A. Hindi	,,	**		,,	,,		,,	**	10
		M.A. Sanskrit	,,	• •		,,	33			,,	. 5
		M.A. Math.	,,	B.Sc.		,,	,,		27.30 p.m.	,,	1
		M.A. Philosophy	· ,,	B.A.		,,	,,		37	,,	2
		M.A. History	,,	,,		,,	,,		**	,,	6
		M.A. History	,,	,,		_ »	,,		,,	. ,,	6
		Ancient									20
		M.A. Geography M.A. Pol. Scie-		B.A.		>>	**		20.35 p.m.	,,	15
		nce	,,	D./1.		**	**		20.05 p.m.	"	1.
		M.A. Economics									30
		M.A. Sociology		>>		>>	**		,,	,,	15
		M.A. Physiology	**	,, ,,		33 33	,, ,,		20 22	,, ,,	ie
			,,	,,		**	"		"	,,	
		Drawing M.Sc.	,,	**		,,	"		**	**	
		Chemistry		B.Sc.					39.30 p.m.		20
		Zoology	"			"	**		00100 p.m.	**	35
			,,	B.A./B.Sc.		,,	**		20.35 p.m.	,,	
		Statistics Botany	,,	B.Sc.		"	,,		39.30 p.m.	"	20
		Botany M.Com.	**	B.Sc. B.Com,		**	,,		35,40 p.m.	وو	50
		w.com.	**	D.COIII,		"	,,		55.70 p.m.	**	
41.	Daya Nand Girls College, Civil Line, Kanpur	Hindi	2 yrs.	B.A.		Post Graduate & Doctorate level	••		15 p.m.	July	

Appendix X-Contd.

level

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		English	2 yrs.	B.A.		Post Graduate & Doctorate leve	1		15 p.m.	July	13
		History	,,	,,		& Doctorate leve			15 p.m.	*>	15
		Pol. Science	,,	,,		\$>	••		15 p.m.	,,	22
		Physics	**	"		**			20.60 թ.m.	• •	22 26
		Economics	,,	,,		,,			15.64 p.m.	>>	30
		Geography	,,	,,		,,			15.64 p.m.	22	28
		Drawing &	,,	,,		,,	• •		15.64 p.m.		16
		Painting	,,	"		,,			rotor pinn	**	
		Music							15.64 p.m.		20
		Sanskrit	,,	**		,,	••		15.64 p.m.	23	19
		Psychology	"	**		**	••		15.64 p.m.	53	24
		M.Sc. Chemistry	· · · · ·	B.Sc.		, Post Graduate	••			,,, Tala	30
		MI.SC. Chemistry	z yrs.	в.эс.			••		20.60 p.m.	July	50
		MC- 7				& Doctorate	••		00.00		05
		M.Sc. Zoology	,,	,,		,,	••		20.60 p.m.		. 25
		M.Sc. Botany	,,	,,		,,			20.60 p.m.	>>	20
	L.T. College, D.A.V. College Compound, Civil Line, Kanpur, Ph. 61049	L.T.	l yr.	Graduate		Graduate level	Yes		20 p.m.	July	280
3.	Dayanad Girls Degree College, Kanpur	B.Sc.	2 yrs.	Intermediate		Graduate level			20.50 p.m.	July	41
ŀ.	D.A.V. College, Kanpur	B.Com.	0						16		769
	2011 Concee, Manpul		2 yrs.	,,		"			16 p.m.	,,	
		B.Sc.	"	"		>>			20 p.m.	> 3	7 05
	Electronics Complex	Electronic	1	MAINE.		Certificate			15 m m		15
	Homoeopathic College &		1 yr.	M.A./M.Sc.					15 p.m.	19	15
	Cancer Hospital, 125/38	Complex				level			••		
	W Black C 125/38	Homoeopathic	l ¹ / ₂ yrs	B.A./B.Sc.		**			••	••	15
	'K' Block, Govind Nagar,		1 1 yrs.	Inter		,,			••	••	20
	Kanpur	course	21 yrs.	High School		,,			••	••	20
•	Govt. Labour Welfare	Tailoring &	ly r .	••		Certificate	Yes		••	••	30
	Centre, Jarib Ki Chawki,	Sewing	- / - •			level					
	Kanpur	Embreidery	6 month	,,					e	***	10
	•	,	5 month			,,	,,		a	***	
•	Gupta Type Institute,	Hindi	6 months	High School		,,	,,		6 p.m.	-	6
	118/574, Kushel Puri,	English	8 months	,,,			,,		6 p.m.		
	Kanpur	Shorthand Hindi	lvr			**			8 p.m.		17
	•		- yr.	**		**	,,		• P.m.	-	
	Govt. Labour Welfare	Tailoring	1 yr.	VIII		Certificate	Yes	• •	b : •	Any time	20
	Centre, Baboupurwa,	Hand Embroi-	6 months	,,				- •			7
	Kanpur	derv	5 ***014110	"		**	,,				•
	Govt. Polytechnic,	Civil	3 yrs.	High School	On the	>>	Yes	Kanpur	15 p.m.	July	60
	Kalyanpur, Kanpur			Passed at least 40% marks	basis of merit			Unit			100
	-	Electrical	3 yrs.	,,		"	,,	,,	,,	,,	120
		Mech.	3 yrs.	,,		,,	••	**	"	>>	120
		Chemical	4 yrs.	,,		,,	,,	,,	,,	,,	10
		Electronics	3 yrs.	**	,,	Diploma	"	>>	**	"	30
		Post Diploma	l vr.	After Din in							10
		in Instrument	ı yr.	After Dip. in Elec. & Mech.		"	••	:,	,,	**	10

*appeared in B.Sc. I

				1	Appendix	x X —Contd.						
1	2	3	4	5	6	7	8	9	10	11	12	13
50.	Principal, Govt. Normal School, Pukhrayan, Kanpur	В.Т.С.	l yr.	High School		Certificate	Yes	Kanpur	••	•••	20 p.m. July	100
51.	Govt. Normal School, Vilhoor, Kanpur	B.T.C.	l yr.	High School	Merit	Certificate	Yes	Kanpur	19.50 p.m	. 20 p.m. Gen. Cand. for 8 mon. 27 p.m. to Sc. for 8 mon.	July	100
2.	B.P.M.G. Inter College Mandhna, (Trg. Section)	B.T.C.	1 yr.	High School	Merit	Certificate	Yes	Kanpur	-	All S.C. 27/- p.m. For 10 mon. Merit	July	60
53.	Gyan Bhartiya Inter College, Birhana Road, Kanpur	B.T.C.	1 yr.	High School	Merit	Certificate	Yes	Kanpur	14 .7 5 p.m.	20 p.m.	July	60
54 .	Govt. Community Cawnirs Centre, West Cantt. Bldgs., Mall Road, Kanpur	Fruit Preser- vation	R-10 days U-15 days			Certificate	Yes	Kanpur	2.50 fo r Females 5 for Gent	–	Anytime	20
55.	Principal, G.S.V.M. Medical College, Kanpur	Lab, Technician	l yr.	H. Sec.	Secy. St- ate Me- dical Faculty	Certificate	Yes	Kanpur	0 × 5	30 p.m.	May-June	40
		Pharmacist	l yr.	H. Sc.	**	Diploma	Yes	Kanpur	-	40 p.m. for Male 60 p.m Female		120
		M.B.B.S.	4 1 yrs.	Inter with Biology or equivalent examn.	Written Test	Graduate	Yes	Kanpur	219	On merit basis for 4½ yrs.	August	19 0
		M.D. in Medicine	2 yrs.	MBBS Degree from Recog-	Merit basis	Post Graduate	Yes	Kanpur	Nil	From Govt. of India	January & August	10
		Physiology	2 yrs.	nised University	>>	,,	,,	**	"	,,	"	2
		Pharmacology	2 yrs.	One yr. House Job done from	>>	,,	••	>>	33	"	»» .	2
		Pathology	2 yrs.	Recognised hospital after permanent Regd. in cases of clinical	"	,,	,,	"	"	,,	,	5
		Radiology	, ۱	**	<u>:</u> •	: >	,,	,,	:,	"	,,	3 4
		Tuberculosis Social & Pre-		,,	٠,	, ,	,,	,,	,,	,,	2.7	4
		ventive medicine	,,	**	:	,,	,,	"	"	"	19	
		Paediatrician Anaesthesiology	•••	"	,	**	"	÷ .	,, ,,	>> >>	32	4 3
		. macouncourogy	,.	,,	•	,,	• • • •	,.	: •		.,	

Appendix	\mathbf{X} —Contd.
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			M.S. in Surgery	2 yrs.	•,	"	,,	,,	,,				12
20			Anatomy	· ,,	,,	23	**	,,	> 9			,,	4
1			Orthopaedis	,,	,,	,,	,,	,,	73			,,	3
يستو			Opthalmalogy	,,	,,	,,	•,	33	,,			**	4
Ā			Obst. gynacology		;;	,,						••	4
ភ្ន			E.N.T.				**	• •	"			**	3
8			D.M. in	**	,,	,,	,,	,,	,,			,,	5
20-1 DGET/ND/77			Cardiology	**	",	,,	Doctorate	>,	"			March &	3
3			Dip. in									Oct.	
7			Laryngology & Octology	1 yr.	One year house job	Merit basis	Post Graduate	Yes	Kanpur	Rs. 300 per yr. for	Nil	January	6
			Gynacology & obsteting	1 yr.	done from Recognised	,,	"	**	"	Graduate of U.P.	"	"	6
			Medical Radio- logy and Elec-	1 y r.	hospital after permanent	,,	"	37	"	medical college &	"	"	6
			tricity		Regd. in cases					400 per			
			Opthalmic and Medicine	lyı.	of clinical	"	,,	"	**	yr. for Graduate	"	"	6
			Surgery	1						outside			
			Clinical Patho-	l yr.	17	,,	,,	,,	,,	U.P.	**	,,	6
			logy Orthopaedic	l yr.	\$ 3	,,	••	**	>3	,,	,,	>>	6
			surgery	1									
			Anaesthesiclogy Child Health	l yr. l yr.	* *	,,	,,	> ?	,,	"	,,	,,	6
			Tuberculosis	l yr.	,,	••	,,	,,	33	>>	,,	,,	6
133			and Chest Disease	1 yr.	**	**	39	89	58	P >	37	"	6
	56.	Govt. Leather Instt.,	Leather working	2 yrs.	VIII	Direct	Certificate	Yes	Kanpur	Nil	Rs. 6, 16	August	20
		Gwaltohi, Kanpur	High School Technical	2 yrs.	13	"	**	,,	,,	,,	,,	37	20
			Diploma in Leather Tech. Training	2 yr.	High School Sc. Maths.	Direct	Diploma	Yes	Kanpur	3 p.m.	30 p.m.	August	10
			Foot wear Technology	2 yr.	"	**	**	"	*3	: 9	**	"	20
	5 7 .	Govt. Normal Girls School, Pandu Nagar, Kanpur	Basic Trg. B.T.C.	1 yr.	High School	Advisory Committe	Certificate e	Yes	Kanpur	Nil	30 p.m.	July	100
	60	Halim Muslim Degree	B.Ed.	l yr.	B.A.		B.Ed.	Yes	Kanpur	27		T 1	10-
	5 8 .	College, Kanput	M.A. (Urdu)	2 yr.	B.A.		M.A.	Yes	-	20		July	165
		Conege, Kanpur	M.A. (Social Study)	2 yr.	B.A.		M.A.	Yes	>> >>	20		July July	60 60
	50	New Premier School of	Type (Hindi)	i yr.	VII		Certificate	Yes		5		A	- 4
	5 9.	Commerce, Ram Mohan	(English)	1 yr.	VII					6		Anytime	50
		Hata, Shiwala Road, Kanpur	(11181211)	2 94.	7 LA		"	, , , , , , , , , , , , , , , , , , ,		U		,,	50
	6 (),	Hind Training College, 18/47, The Mall, Kanpur	Tail ori ng	1 yr. & 1 yr.	Vth		Certificate	Yes		9		Anytime	120

20-1 DGET/ND/77

Appendix X Contd.													
1	2	3	4	5	6	7	8	9	10	11	12	13	
				IX		Certificate	Yes		8		Anytime	250	
51.	Hind Commercial College, 59/2, Birhana Rd., Kanpur	& Eng.) Stenographer		H.S.		,,	**		8		,,	200 (Hindi) 300	
		Hindi & English										(English)	
52.	Hanumant Motor Driving Trg. School, 133/225, M Kidwai Nagar, Kanpur	Motor Driving Heavy Light	3 mon.			;,	Yes	••	440 340		,,	200	
63.	H.B.T.I. Nawabganj, Kanpur	B.Sc. Engg.	4 yr.	Inter B.Sc.	Direct	B.Sc.	Yes	Kanpur	240	75 p.m. for 10 months	July	40	
		Engg.	•	Physics	,,	,,	,,	Kanpur	240	to 25% of the endorse-	July	37 30	
		Elec. Engg.	,,	,,	,,	¥3	,,	,,	,,		**	20	
		Mech. Engg. Civil Engg.	,, ,,	93 37	**	»»	;,	"	3)	ment in order of merit	,,		
		B.Sc. Tech. Bio-Chemistry	3 yrs.	Inter Sc.	Direct	B.Sc.	Yes	Kanpur	240 p er yr.	75 p.m. for 10 mon.		30 15	
		Food	9				,,	,,	,,	to 25%	,,	i	
	· .	Oil	3 yrs.	37	**	>> >>	,,	,,	,,	of the end-	**		
		Paints Plastic	3 yrs. 3 yrs.	>> >>	>> 33	33	"	,,	"	orsement in order of merit			
		M.Sc. Eng.	2 yrs.	B.Sc. Eng.	Direct	M.Sc.	Yes	Kanpur	250	250 p.m. to 5 students	Jul y ,,	1	
		Chem. Plastic	2 yrs.	,,	,,	,,	,,	,,	,,	in order of	,,		
		Chem. Design	2 yrs.	>>	;,	"	,,	,,	»» 050	merit Nil	July		
		Electrical Mech.	3 vrs.	B.Sc. Eng.	,,	,,	,,	,,	250 250	Nil	July		
		Industrial Maths	2 yrs.	B.Sc. Maths/ Eco. Eng. Tech.	,,	• 3	>>	"	250	1411	. ,		
		M.Sc. Tech.				M.C.			,,	250 p.m.	July		
		Bio-Chem.	2 yrs.	B.Sc. Tech.	"	M.Sc.	,,	,, ,,	,,	,,			
		Food	,,	53	,,	**	1) 22	,,	,,	,,			
		Oil	**	,,	,,	,,	,,	,,	,,	,,			
		Paints	,,	>>	;,	**	,,	,,	,,	"			
		Plastic	**	,,	**	,,							
		Doctor ate Physics	3 yrs.	M.Sc.	Direct	Doctorate	Yes		25 p.m.	250 to 2 students	July		
		O 1		M.Sc. Chem.		,,	*3		25 p.m.	250 p.m. t	03,,		
		Chemistry	**	Winde, Chemi	· · · · · · · · · · · · · · · · · · ·	**	,,		"	400 p.m. t	0 >>		
		Plastic	,,	M.C. Matha					250 per	one 250 to two	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		Maths	2-3 yrs.	M.Sc. Maths	,,	**	**		yr.	400 p.m. t	o "		
		Oil Paints	,,		,,	.,	,,			one			
											,,		
		Chemistry Eng	g. ,,		,,	**	,,			••	,,		
		Food-Biochem.	- ,.		,,	**	5.9						

Appendix X-Contd.

64.	International Centre, College of Education, Swaroop Park, Kanpur	B.Ed.	1 yr.	Graduate	Direct	B.Ed.	Yes		2 9 .50		J uly	55
65.	Industrial Training Institute, Pandu Nagar, Kanpur	<i>Engineering</i> Plumber	1 ут.	Jr. H.S.	By Advi- sory Com-	Certificate	Yes	**	••	25 p.m. to all	August	16
		Sheet Metal worker	,,	۶۶	mittee Merit basis	"	1%	"	• •	,,	,,	16
		Welder (Gas & Elec.)	"	"	**	"	• •	**	••	25 p.m. to 33% of the	,,	48
		Carpenter	,,	**	**	,,	"	**	••	students 25 p.m. to all	,,	16
		Motor Mech.	l yr.	Jr. H. S .	Merit basis	Certificate	Yes	"		25 p.m. to 33% of the students	August	64
		Tractor Mechanic	"	**	,,	,,	,,	"	••	>3	"	16
		Mech. Refrige- rator Air Cond.	"	H.S.	,,	"	**	>>	••	,,	,,	32
		Moulder	,,	"	"	**	**	**	••	25 p.m. to all	,,	32
		Painter D/man civil	,, 2 yrs.	H.S. (Science & Math)	By Ädvi- sory Com- mittee on merit	Certificate	Yes"	", Kanpur	Free	25 p.m. to 33%	23 33	32 32
		D/man Mech.	,,	,,	,,	,,	"	,,	,,	,,	,,	64
		Electrician	"	Jr. H.S.	,,	,,	,,	,,	,,	**	,,	128
		Fitter	,,		,,	,,	"	,,	,,	,,	,,	288
		Mech. Instru- ment	,,	H.S.	39	,,	**	>>		"	,,	64
		Electronics	,,	J. н. s.	,,	,,	,,	,,	••	,,	,,	64
		Mech. Grinder Mech. Compo- sitor	2 yrs.	J. H. S. J.H.S.	By Ädvi- sory Com- mittee on merit basis	Certificate	Yes"	,, Kanpur	Free	25 p.n. to 33%	August	24 72
		Mech. Shaper	,,	"	,,	,,	,,	,,	,,	,,	: >	48
		Mech. Radio & Television	37	**	,,	:,	"	,,	,,	>>	33	48
		Pattern maker	,,	"	,,	,,	**	,,	,,	25 p.m. to all	.,,	16
		Surveyor	,,	**	,,	,,	",	,,	,,	,,	,,	32
		Turner	,,	J.H.S.	**	**	"	,,	,,	25 p.m. to 33%	"	156
		Tool & Die maker	"	H.S.	,,	**	"	**	۶.	,,	"	32
		Wireman	,,	J.H.S.	,,	,,	,,	**	2.4	,,	**	64
	,	Electroplater Vocational Boys	,,	H.S.	**	,,	,,	,,	,,	33	,,	16
		Book Binding	l yr.	J.H.S.	,,	,,	,,	,,	,,	,,	;,	16
		Cutting & Tailor ing	,,	رد	"	,,	,,	,,	,,	>>	**	32

1	2	3	4	5	6	7	8	ę	10	11	12	1
		Hand Compo- sitor & Proof Reading	1 y r.	- (By Advisory Committee on merit basis	Certifi- cate	Yes	Kanpur	Free	25/-p.m. to all	August	
		i'riating machiae O o t.		,,	**	,,	,,	**	"	,,	**	
		Stenography (Hin	di) "	H.S.	,,	"	,,	,,	,,	25 p.m.	"	
		Stenography (English)	**	3.8	"	9 3	33	• •	33	to 33%	>> >>	
		Vocational Girls Cutting & Tailoring Embroidery Knitting Wool	1 yr.	J.H.S.	By Advi- sory Com- mittee on merit basis	Certificate	Yes	Kanpur	Free	25 p.m. to 33%	August	
		(HandMachine) Stenography	**	,,	"	"	"	,,	,,	,,	**	
		(Hindi)	,,	,,	; ,	,,	• •	,,	,,	**	,, `	
		(English)	,,	**	"	"	"	• •	,,	25 p.m. to all	"	
			,,	H.S.	"	**		••	**	25 p.m. to 33%	**	
66	Indian Institute of	B. Tech. Degree	,,	"	,,	,,	••	**	,,	23	27	
66,	Technology, Kalyanpur, Kanpur	Aeronautical Engg.	5 yrs.	H.S. or Inter	To pass Written Test & In- terview	B.Tech.	"	,,	175 p.m.	75 p.m. to 25% Candi	July	
		Chem. Engg	,,	"	,,	**	;,	"	,,	,,	,,	
		Civil Engg.	,,	33	,,	,,	"	"	,,	,,	,,	
		Mech. Engg.		,,	,,	,,	,,	,,	,,	,,	,,	
		Electrical Engg.	,,	,,	,,	,,	,,	"	,,	,,	,,	
		Metallurgical Engg.	,,	>>	23	20 90	>>	3 >	,,	>>	••	
		M. Tech. Degree Aeronautical Engg.	2 yrs.	M.Sc.	On the basis of Test & merits	M.Tech.	Yes	Kanpur	300 p.m.	250	July	
		Chemical Engg.	,,	B.Sc. Engg.	,,	**	,,	,,	,,	,,	,,	
		Civil Engg.	,,	B.Tech.	>>	,,	"	,,	,,	"	,,	
		Electric	,,	,,	,,	,,	"	,,	,,	,,	,,	
		Mechanic	,,	,,	,,	,,	,,	,,	,,	,,	,,	
		Materiological Phd. in	"	33	**	>>	"	33	,,	,,	,,	
		Engineering	,,	,,	,,	>>	",	,,	,,	,,	••	
		Aeronautical	,,	"	,,	"	••	**	,,	,,	,,	
		Chemical	,,	,,	,,	,,	,,	,,	,,	••	,,	
		Civil	••	,,	On the	Ph. D	. ,,	··	D 000	D (0)	, "	
		Electrician	3 yrs.		On the basis of tests and	Ph. D	Yes	Kanpur	K s. 300	Rs. 400	July	

APPENDIX X-Contd.

merit

		Mechanical Metallurgy M.Sc.	:» 2 yts.		", On the basis of tests and merit	" M.Sc.	y Yes -	» " Kanpur	" 200	" On the basi of merits & income of guardian	,, s July	9 4 76
		Chemistry	2 yrs.		,, ,,	••	,,	,,	» ,	Rs. 75 p.m. free Hostel	. plus ,,	13
		Mathematics Stastistics Physics Computor Ph. D. Science	2 yrs. 2 yrs. 2 yrs. 2 yrs. 2 yrs.		>> >> >> >>	25 75 25	>> >> >> >>	55 55 55 55	>> >> >> >>); ;; ;; ;;	>> >> >> >>	6 6 10 6
		Chemistry Maths Physics Humanity Computor	3 yrs. 3 yrs. 3 yrs. 3 yrs. 3 yrs. 3 yrs.		23 25 25 29 29	Ph. D.	>> >> >> >> >>	>)))))))	>> >> >> >> >> >>	33 33 33 33 33	>> >> >> >> >> >>	21 11 12 9 2
67.	J.N. Sharma & Company, 58/4, Birahana Road, Kanpur	Chartered Accountancy	4 yrs.	B.A .		C.A .	Yes	Kanpur			July	1 9
68.	Jaspal Rai Nari Shilp Kala Kendra, Lajpat Nagar, Kanpur	Tailoring & allied crafts	1 yr.	Higher Se- condary		Certificat e	Yes	Kanpur	Rs. 12.50	-	July	40
		Special Course in tailoring & allied crafts	2 yrs. 6 months	J.H.S. Primary		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,, ,,	** **	Rs. 8.50 [Rs . 12.50		July July	30 50
69.	Jai Bharat Commercial Institution, 178, Govind Nagar, Kanpur	Hindi Typing English Typing Shorthand (English) Shorthand	1 yr. 1 yr. 1 yr.	H.S. "		Certificate "	Ycs ,, ,,	,, ,,	Rs. 6.50 to R Rs. ,, I s. 12.00 Rs. 18.00	s. 8 —	Any day ,, ,,	40 20 56 50
-0		(Hindi)		»		»	**	,, T			»	
70.	Janata Type Institute, Azad Nagar, Nawab Ganj, Kanpur	English Type	12yr. 12yr.	H.S. H.S.	••	Certificate Certificate	Yes Yes		Rs. 9.00 Rs. 7.00	Nil.	Any day Any day	15 7
71.	Principal, J.D. Girls Degree College, Canal Road, Kan- pur	M.A. Hindi Drawing & Painting Physhiology Music	2 yrs.	B.A. ,,	 	M.A.	Yes ,,	,, ,,	Rs. 20.50 Rs. ,, Rs. 22.50 Rs. ,,	Nil ,,	July "	60 60 60
72.	Jai Bharat Type School, Harjendra Nagar, Kanpur	Hindi Type English Type	" 7 months	" H.S.	•• . ••	" Certificate "	,, No. ,,	,, 	Rs. ,, Rs. 7.50 Rs. 6.00	»	" Any day Any day	60 5 5
73.		Tailoring & Cutting	3 months 6 months 9 months 1 yr.	Educated	••	Certificate " "	Yes.	·· ·· ··	Rs. 30.00 Rs. 15.00 Rs. 10.00 Rs. 7.00	· · · · · ·	Any day ""	40 40 40 40
74.	Jwala Devi Vidya Mandir Degree College, Anand Bagh, Kanp ur	M.A. Hindi M.A. Sanskirit. M.A. Political Science	2 yrs. 2 yrs.	B.A. B.A. ,,	 	,, M.A. M.A.	Yes. Yes.		21·25 21·25 "	Nil. Nil. "	July July "	50 50 50

1	2	, 3	4	5	6	7	8	9	10	11	12	13
75.	Tiwari Tailoring College, 109/391, Jawahar Nagar, Kanpur	Tailoring & Cutting	l yr. 6 months	v v	 	Certificate	Yes. ,,	 	7·50 "	Nil. "	Any day "	3 0 20
76.	Janta Vikas Mandal, Mahila Tailoring & Cutting Training Centre. Suzat Ganj, Kanpur.	Tailoring Cutting	6 months 6 months	VHI VIII		Certificate	Yes Yes	•••	60.00 60.00	Nil Nil	Any day Any Day	15 5
77.	Krishna Motor Driving College, 128/526, Kidwai Nagar, Kanpur.	Motor Driving	3 months	•••	••	Certificate	Yes		40 0 · 00	••	Any time	100
78.	Kanpur Tailoring College, Ghatampur Main Road, Kanpur.	Tailoring	l year	VIII	Direct	Certificate	No		5.00	••	Any time	25
79.	Kanpur Commercial Coll- ege, 125/1, L-Block, Govind Nagar, Kanpur.	Typing Hindi Typing English	1 yr. ,,	H.S. H.S.	•••	Certificate	-No Yes	··· ··	8.00 7.00		Any time	60 60
80.	Kanpur Homeopathic Medi- cal College, G.N.K.Building., Civil Line, Kanpur.	- B.M.S.	4 years	Intermediate	Direct	Diploma	Yes	Kanpur	300 per year.		August	200
81.	L.L.R. Associated Hospitals, Kanpur.	General Nursing	3 утз.	H. S .	Direct	Diploma	Yes	Kanpur	100 fixed	••	September	67
82.	Lakshmi Tailoring School, 7/54, Tilak Nagar, Kanpur.	Tailoring Cutting	6 months 6 months	Educated Educated	Direct	Certificate	No No	••	8.00 8.00	••	Any time	8 8
83.	Misra Institute of Commerce 104-A/246 P. Road, Kan- pur.	Hindi Typing English Typing Shorthand H'E	3 months ,, 1 year	H.S. "	Direct "	Certificate "	Yes ,,,	Kanpur "	6.00 5.50 7.00	••	Any time	34 34 18
84.	Mahila Shilp Kala Kendra, Arya Nagar, Kanpur.	Tailoring Machine Emb- roidery	6 months	•••	Direct	Certificate	No ,,	••	100·00 "	••	May 	not fixed "
		Hand Leather Work (Pad, Cushion)	31	••	», »,	" "	5) 79	••	>> >>	••))))	33
85.	M.K. Shilp Kala Vidyahya, 95/46, Halsi Road, Kanpur.	Embroidery	6 months	H.S.	i Direct	Certificate	Yes	Kanpur	9.00	••	Any time	30
	Mahila Mahavidyalaya Degree College, Kidwai Nagar, Kanpur.	B .E d.	l year.	B.A.	Interview	B.Ed.	Yes	Kanpur		Scholarship for SC only	July	160
87.	Mishra Commercial College, P. Road, Kanpur.	Type Hindi En- glish	½ year.	H.S.	Direct	Certificate	Yes	Kanpur	5.00	••	Any time	30
	r. Koau, Kanpur.	Shorthand	l Year.	H.S.	33	37	,,	"	6.00	••		15
88.	Mahila Shilp Kala Kendra, Block No.79 Labour Colony; Babu Purwa, Kanpur.	Tailoring Embroidery	l year. l yr.	••	•••	Certificate	No No	••	5.00 5.00	•••	:)	16 19

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89.	ManojCommercialInstitute, 65 Kaji Khera, Har Jendra Nagar, Lal Bangla, Kanpur	English Typing	7 months 8 months 8 months	H.S. " "	Direct ,, ,, ,,	Certificate ,, ,, ,,	No " "	••• •• »	7.00 6.00 6.00 6.00	 	Any time	5 7 ••
90.	Mahila Shilp Kala Kendra, 106/61, Gandhi Chowk (Prem Nagar) Kanpur.	Tailoring Embroidery	l year 6 months	· · · · · · · · · · · · · · · · · · ·	Direct Direct	Certificate Certificate	Yes ,,	Kanpur "	4·00 ,,		Any time	100 80
91.	M. Ashraf & Co., Chartered Accountants, 33/130-A, Mool Ganj Kanpur.	Chartered Accountants	3/4 years	Graduate	On merit	C.A.	Yes	Kanpur	50.00	••	Any time	4
92.	Nari Kala Kendra Gumti No. 5, Kanpur.	Tailoring Embroidery	l year	J.H.S. "	Direct	Certificate	Yes ,,	Kanpur ,,	7·50	••	April	15 15
93.	Nav Bharat Commercial Type College, 26/103, Bir- hana Road, Kanpur.	English Typing	6 months	H.S.	Direct	Certificate	Yes	Kanpur	7.00	Nil	Any time	10
94.	Navneen Training College, 133/834, M-Block Kidwai Nagar, Kanpur.	Men Tailoring	1 year	VIII	Direct	Certificate	No		5	only for S.C. 200	July	58
		<i>Women</i> Tailoring Embroidery	6 months	VIII "	Direct) ,))))	•••	4	only for SC Rs. 200	July "	26 16
95.	Nehru Vikas Mandal, 133/ 767, M-Block, Naya Purwan Kidwai Nagar, Kanpur.	Tailoring	l year		Direct	Certificate	Yes	Kanpur	2.00	Nil	Any day	18
96.	Nav Bharat Commercial Col- lege, 133/131, M-Block, Kidwai Nagar, Kanpur.	English Type Hindi Type English Short- hand Hindi Shorthand	9 Months 9 months 1 year "	H.S. "	Direct ,, ,,	Certificate ,, ,,	Yes ,, ,,	••• •• ••	8.00 10.00 "	••	Any Time ,, ,,	60 20 16 10
97.	New Diamond Shlip Kala Kendra, Jaggai Purwa, Kanpur.	Tailoring	6 months	VIII	Direct	Certificate	No	••	3.50	••	Any time	40
98.	Narain Type Institute 89/ 209, Dalel Purwa, Kanpur.	Hindi Typing English Typing	6 months 6 months		Direct	Certificate	No ,,		$6.00 \\ 5.00$	••	Any Time "	1 4
9 9 .	Narain Tailoring School, 132/726, Munshi Purwa, Dak Khana Road, Kanpur.	Tailcring Embroidery	1 year	V V	Direct ,,	Certificate	No "	·.	10·00 ,,		July ,,	30 10
100.	New Commercial Institute, Kaushal Pun, Kanpur.	Hindi Type English Typing	6 months 6 months	H.S. "	Direct	Certificate	No ,,		$6 \cdot 00$ $5 \cdot 00$	••	Any time	8 20
101.	Nari Kala Kendra Block No. 12, Govind Nagar, Kan- pur.	Tailoring & Cutting Embroidery	1 year 6 months	H.S.	Direct	Certificate	Yes	••	8.00	••	Any time	
102.	Shyam Shiksha Kala Kend- ra, 120/165, Lajpat Nagar, Kanpur.	Tailoring &	l year	,, H.S. ,,	" Direct	,, Certificate ,,	,, Yes	··· ··	<u> </u>		,, Any time ,,	

Appendix X—Contd.

				~~PP		Gome.						
$\overline{1}$	2	3	4	5	6	7	8	9	10	11	12	13
103.	National Music School Gandhi Chowk, Kanpur-12	Music Vocal	8 years	VI	Vocal Te	st Certificate	Yes	••	Rs. 6 to 20 p.m.	••	July	100
		Music Instrumenta	al ,,	,,	,,	,,	,,	,,	••	••	,,	75
		Music Dance	"	**	,,	**	,,	••	,,	,,	<u>»</u>	100
	Omar Vaishya Shilp Kala Kendra, 58, Birhana Road, Kanpur.	4	l year	VI		Certificate	No	0 1 0	6	••	Any time	20
105.	Omar Vaishya Technical	Radio Mechanic	6 months	I.S.G.	••	Certificate	No	,,	Rs. 20 p.m.		Any time	15
	Institute, 59, Birhana Road. Kanpur.	Transistor Mech.	1 yr.	H.S.		"	,,	,,	Rs. 15 p.m.		**	20
106.	Omar Vaishya Fine Art School, 531, Birhana Road, Kanpur.	Music	l yr.	••	Direct	Certificate	No		Rs. 6 · 50 p.m.		July	200
107.	S. National Sugar Institute, Kalyanpur, Kanpur (UP)	Sugar. Engg.	1 yr.	Diploma in Engg.	on Merit	Certificate	Yes	Kanpur	Rs. 710 per year	••	July	6
	Halyanpur, Honpur (01)	Sugar Boiling	6 months	Matric*	**	"	,,	"	Rs. 493 per year	• •	"	34
		(Physics, Chemist Khandasari Supervisor	9 Months	H.S.	perience). ,,	"	"	"	Rr. 628 per year	••	,,	7
		*(with Science & Khandsari Karigar	Mathemati 1 yr	vIII	On merit	Certificate	Yes	Kanpur	Under conside-	••	November	••
		Fellowship of National Sugar Institute	3 yrs.	Associated course in ANSI in Sugaringg.	"	Diploma	33	**	ration. Rs. 540 Iyr. Rs. 264 II yr. Rs. 264 III yr.	••	July	5
		 (a) Sugar Tech. (b) Sugar in Cher (c) Alcohol Tech. (d) Sugar Engg. 	m. $\left\{ \begin{array}{c} 3 & \text{Year} \\ \end{array} \right\}$,,	"	,,	29	"	••	,,	Ŀ.
		Associative of NSI in sugar Technology	2 ½ yrs.	B.Sc. 45% marks	Written Test and on merit basis.		"	"	Rs. 600 for 6 months Rs. 271 for 6 months Rs. 324 for 6 months Rs. 261 for 6 months Rs. 324 for 6 months	••	July	52
		Associative of NSI in Sugar Engg.	l year	Degree in Mech. or Elec Engg.	,,	,,	,,	**	Rs. 600 for 6 months Rs. 324 for 6 months	••	**	13
		Diploma in In- dustrial Ferm- nentation in Al- cohol Technology	,, 7	N.S.I. Sugar Tech. or B Sc. with experi- ence in dis- tillery.	,,	"		37	Rs. 600 for 6months Rs. 261 for 6 months	Nil.		21

		Research for Ph.D Physical Cheme Organic Chemis Bio-Chemistry Agricultural Chem.	istry 3 yrs.								July ,, ,,	
108.	Embroidery Centre Shop No. 7,8, Kotwali Market. Kanpur.		6 months	VIII	••	Certificate	Yes	Kanpu	Rs. 8 p.m.	Nil	Any day	
109.	Pandey & Co.24/24 Karachi Khana, Kanpur.	Chartered Accountancy	4 years	B.Com. 50% marks	Merit	•••	Recognised	•••	••		Not fixed	
110.	P.P.N. College, Kanpur.	B.Sc. (Maths)	2 years	Intermediate Science	At least III Div.		Recog- nised		Rs. 20 p.m.	As prescribe under rules	d July	1
		B.Sc. (Zoology) B.Com.	2 years 2 years	,, Interemdiate Commerce	,, ,,	•••	,, ,,		Rs. 20 p.m. Rs. 20	>> >>	>> >>	1
111.	Prem Commercial Institute, 118/183, Bumga Road, Kan-	Typing	6 months	Matric	••	••	Unrecog- nised	••	Rs. 4.50		Not fixed	
	pur.	Shorthand	,,	>>	••		,,	•••	Rs. 5.00		,,	
112.	Premier School of Steno Typing, Plot No. 9, Naveen	Hindi Typing	6 months	High School		••	Unrecog- nised	•••	Rs. 6.00	••	"	
	Market, Pared, Kanpur.	English Typing Hindi Shorthand English Shorthand	" 1 ",	>> >> >>	 	·• •• ••	>> >> >>	 	Rs. 6 · 00 Rs. 8 · 00 Rs. 8 · 00	••• •• ••	>> >> > >	
113.	Public Commercial Insti- tute, St. Xaviers Bldg. Ashok	Hindi Type	6 months	VIII class	••	•••	Unrecog- nised	•••	R s. 8.00		••	1
	Nagar, Kanpur.	English Type Hindi Shorthand English Shorthand	33 - 71 33	High School ,, ,,	••• •• ••	· · · · ·	>> >> >>	•••	Rs. 8.00 Rs. 8.00 Rs. 8.00	••• •• ••	••• ••	47 8 8
 114.	Pawan Typing Institute, 109/24, Ram Krishan Ngr.,	Hindi Type	6 months	High School	••	•••	Unrecog- nised.		Rs. 8 · 50	••	••	12
	Kanpur.	English Type Hindi Shorthand English Shorthand	>> >> >>	>> >> >>	••• •• ••	 	>> >> >9	 	Rs. 8 • 50 Rs. 8 • 00 Rs. 8 • 00	••• ••	•••	52 4 (
15.	Pragatisheel Shilp Kala Kendra, Rail Bazar, Kanpur.	Tailoring	6 months	••	••		Unrecog- nised.		Rs. 5.00	••	••	
	Parikh and Jain, 59/48 Bir-	Kadhai Chartered	,, 4 years	 Graduation	 . <i>.</i>	•••	,, Recogni- sed.	•••	Rs. 5.00 Rs. 75.00	•••	•••	2

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				AP	pendix X—	-Comu.					<u></u>	
	1 2	3	4	5	6	7	8	9	10	11	12	
117.	P.P.N. Post Graduate Col- lege, Kanpur.	Hindi (M.A.)	2 Years	B.A.	Applica- tion & Merit	,,	,,	••	Rs. 20/- (p.m.)		Aug.	
		Economics (M.A.)	,,	,,	,,	**	,,	••	Rs. 20/- (p.m.)	••	**	
	•	Phycology (M.A.)	**	,,	**	**	,,	••	20.00	••	,,	
		Geography (M.A.)	23	,,	27	**	39	••	20.00	••	**	
		Physics (M.Sc.)	**	B.Sc.	,,	,,	,,	••	$25.00 \\ 25.00$	••	"	
		Chemistry (M.Sc. Maths (M.Sc.)) ,, 2 years	B.Šc.	,, Applica- tion & Merit.	» • •	Recog- nised.	••	25.00 25.00	••	Aug.	
118.	Ram Typing Centre 14/82, Civil Line, Kanpur.	Typing	4 Months	VIII	•••	••	Unrecog- nised.	••	7.00	••	••	
	Givin Line, Kanpur.	Shorthand	6 Months]	Higher Sec.	••		,,	••	10.00	••	••	
119.	Ram Swarup Gramudyog Post-Graduate College Pu- khrayan, Kanpur.		2 Years	B.A.	••	••	Recog- nised.	••	26.00		July	
120.	Ravi Type & Shorthand Ins titute Bolck-7, Govind Nagar	- Hindi Typing	6 Months	H.S.	••		Unrecog- nised.	••	7 •00		••	
	Kanpur.	' English Typing		,,	••	••	,,	••	,,	••	• •	
	-	Hindi Shorthand	1 Year	33 33	• •	••	"	••	**	••	••	
		English Shorthand	l Year	**	••	••	33	••	**	••	••	
121.	. R. E. Shukla Tailoring col- loge, 121/680, Shastry Na- gar, Kanpur.	Tailoring	l Year	••	••	••		••	8.00		••	
122	. Rajendra Typing Schoo 74/109. Dhankutti, Kanpu	l English ır Typing	6 Months	VIII	••	••	Unrecog- nised	••	6.00			
123	. Ram Krishan Commerci Institute, Pukhrayan, Ka	al Hindi Typing	**	Higher Sec.	••	••	,,		10.00		. •	
	pur	English Typing		Inter	• •		"		10.00		••	
	•	Hindi	1 Year	Higher Sec.	••	••	"	••	10.00	••	• •	
		Shorthand English	**	Inter		••	,,		10.00	••	••	
124	. Radio Training Centre		6 Months	VIII			33		18.00		• •	
	Pheel Khna, Kanpur.	sister Mechanic.										
125	. Raj Commercial Institute Karachi Kana, Birha-na	e English Typing	3 Months	Hihger- See		• •	Recog- nised.	••	••			
	Road, Kanpur.	English Shorthand	6 Months	3>	••	••	**	••	6.00	• •	• •	

Appendix X—Contd.

126.	Rajesh Shilp Kala Mandir, 111/112, Ashok, Nagar, Kanpur.	Tailoring & Embroidry.	l Year	IV		••	Unrecog- nised.		Rs. 1·25 (p.m.)		July	50
127.	Radio Television Institute, 37/19, Mall Road, Kanpur.	Radio-Transister Mechanic.	3 Months	Higher Sec.	••	••	Recog- nised.	••	22•00	••	••	12
128.	Ramkrishna Kadhai Kendra 36/34, Gillish Bazar, Shivaka Road, Kanpur.						Unrecog- nised.	••	10.00 (p.m.)	••	••	4
129.	Rashtriya Nari Kala Kendra 110/61, Ram Krishan Nagar, Kanpur.	Tailoring	6 Months	Higher-Sec.			Recog- nised		8•00 (p.m.)	••	Sept.	25
130.	Ram Devi Shilp Kala Nike- tan, 107/58, Jawahar	Tailoring	l Year	••	••		Unrecog- nised.	••	5.00 (p.m.)	••	July	20
	Nagar, Kanpur.	Embroidry	,,		••		,,		(p.m.)	,,	**	20
131.	Raj Typing Centre, 15/46, Civil Line, Kanpur.	Shorthand	6 Months	Higher-Sec.	••	••	Recog- nised.	••	9.00 (p.m.)	••		30
	Civit Inne, Itanpati	Typing	2 Months	,,	••	••	,,	••	7.00 (p.m.)		••	45
132.	S.N. Sen Balika Vidyalaya, (Degree College), Kanpur.	B.Sc.	2 Years	Intermediate	On Merit	•	33		18.00 (p.m.) As pres- cribed under rules	•••	•••	102
133.	Sumesh Type & Shorthand Institute, Arya Nagar,	Туре	3 Months	Higher-Sec.	Direct	••	Unreco- gnised.	••	7.00 (p.m.)	••	••	50
	Kanpur.	Shorthand	6 Months	,,	,,	••	,,	••	9.00 (p.m.)	••		25
134.	Standard Typewriting Institute, 128/97, F-Block,	Typing	6 Months		••	••	Unrecog- nised.	••	7.00 (p.m.)	••	••	40
	Kidwai, Nagar, Kanpur.	Shorthand	6 Months	Higher-Sec.	••		33	••	8·00 (p.m.)	••	••	20
135.	Smt. Nari Mahila Shilp	Tailoring	1 Year	v			,.		••	••	••	20
		Modelling	,,	**	••	••	**	••	••	••	••	15
	pat Nagar, Kanpur.	Painting	,,	**	••	••	,,	••	••	••	••	5
136.	Shukla Tailoring College, 118/626,Kaushal Puri, Kan- pur.	Tailoring	**	••		••	,,	••	9.00 (p.m.)	••		150
137.	St. Catherine Hospital, The Mall, 63/8, Near Heer Palace Kanpur.	Auxilery Nursin g & Midwifery.	2 Years	VIII	Interview Pre- Medical		Recog- nised.		Rs. 75.00 (p.m.)	••	March/ Sept.	30
138.	Srivastva type Institute, 104/437, P. Road, Kanpur.	English Typing	6 Months	Higher-Sec.	••		Unrecog- nised.		8•00 (p.m.)	••		100

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					Appendix X	Conta						
1	2	3	4	5	6	7	8	9	10	11	12	13
139.	Standard Typing Institute, Nawab Ganj (Near Nanak Restaurant), Kanpur.	English Typing	6 Months	Higher Sec.	Direct		Un Recog- nised		7·00 (p.m.)			20
140.	Shastriya Sangeet Vidya Peeth, Armapore Estate, Kanpur.		6 yrs.	Educated	Merit		Recog- nised.	I year. II ,, III ,, IV ,, V ,, VI ,,	5 · 50 6 · 50 7 · 50 8 · 50 9 · 50 10 · 50		July	18
		Vocal Music	,,	,,	,,	••	,,	,,	••	••	,,	25 3
		Sitar Guitar	"	,,	,,	••	,,	,,	,,	••	"	3 5
		Tabla	**	,,	**	• •	\$ 9	"	,,	••	,,	9
			,,	**	**	••	,,	"	**	••	"	-
141.	Swadesh Commercial Col- lege, 133/823, M-Block,	Hindi Typing	8 Months	Higher Sec.	••		Unrecog- nised.	• •	8.00	••	••	15
	Kidwai Nagar, Kanpur.	English Typing	, _,,	,,		• •	,,	• •	8.00	••		20
		Hindi	1 Year	,,	,,	••	,,	••	10.00	••	••	2
		Shorthand Engish Shorthand	,,	**			"	• •3	10.00	••		3
142.	Samushad Ali Kadhai Kendra, Shiva-la Rd. Grlish Bazar, Kanpur.	Hand Embroi- dry	6 Months	Educated		••	"		10.00			5
143.	Sanjay Punching Institute Kurswan, Kanpur.	Key Punch Operator.	3 Months	Higher Sec.		••	••		8.00		••	12
144.	Soodan Stry Silai Katai & Embroidry School, Netson	Tailoring	8 Months	Educated			Recog- nised.	••	9.00	••	••	8
	Road, Kanpur.	Embroidry	,,	,,			,,	• •	,,	••		8
145.	Sarvodaya Shilp Kala Ken- dra, 111/78, Ashok Nagar,	Tailoring	1 Year	VIII		••	Unrecog- nised.	••	8 · 50	••		25
	Kanpur.	Painting	6 Months	,,	• •		,,		10.50		• •	5
146.	S.R. Singh & Co., 58/74, Birhana Road, Kanpur.	Chartered Accountancy.	4 Years	B.A.			Recog- nised.		••	••		1
147.	Tipco Type Institute/10/147 Khalasi Line, Kanpur.	Hindi Typing	6 Months	Higher Sec.			Unrecog- nised.	••	9.00	•••	••	6
	Khalasi Line, Kanput.	English Typing	,.	,,		••	,,	• •	7.00		••	6
148.	T.C. Institute Typing	Hindi Typing	,,	"		••	Recog-	• •	9.00	••		14
	House, 87/136, Dev Nagar, Kanpur.	English Type	,,	39			nised		7.00			14
1 49 .	Tandan & Co. Laximi- Building 16/48, The Mall, Kanpur.	Chartered	3 to 4 years	B.A.	On merit & inter- view	•••	,,		••	Rs. 60 per month	April 1 July 1 Oct. 1	18
1 50 .	Upper India Sugar Insti- tute, Maternity Hospital, Kanpur.	Midwifery	6 Months	Higher Sec.	Direct.	••	Recog- nised		100·0 p.m.		Sept.	20

Appendix X-Contd.

151.	Ursala Hospital, Kanpur, ParadeBara Chauraha.	Midwifery Training Head Nursing		Higher Sec	Applica- tion	••	Recog- nised		30 00 p.m.	••	Aug.	200
		Training	2 Years	Inter	"	· •	,,	••	50·00 p.m.	••	Aug.	100
152.	United Typing Institute on the side of Bata Shoe Co.	Typing	3 Months	VIII	Direct	••	Recog- nised.	••	7•00	••	••	60
	Gwal Toli, Kanpur.	Shorthand	6 Months	Higher Sec.	,,	••	,, ,,		8.00	•••	••	30
153.	Usha Mahila Shilp Kala Kendra 83/1 Jugi, Kanpur.	Tailoring	"	Educated	Interview	• ·	Unrecog- nised	••	7.00	••	••	27
154.	Usha Mahila Shilp Kala Kendra, Harjendra Nagar, Kanpur.	Tailorin g Embroidry	\$5 \$3	,, ,,	 	•••	1) ; 2	•••	$10 \cdot 00 \\ 10 \cdot 00$	•••		N.A. N.A.
155.	Usha Mahila Shilp Kala Kendra, 87/137 Dev Nagar,	Tailoring	8 Months	,,	••		Recog- nised.	••	9.00	••	••	26
	Kanpur.	Embroidry	"	"			,,		9.00	••		26
156.	U.P. Agriculture Institute, Nawab Ganj, Kanpur.	-	3 Years.	I.Sc. (Ag.)	Direct	•	Reco g- nised.		11.00	A. 10% of total str- ength sti- pend @ Rs. 6* p.m.	July	120
		*B. Schlorship to 4	Students;	Rs. 8/- per mo	nths & Rs. 12	/ p.m. for tw	o respectivel	у.		Rs. 15/- a) H	ts.	
		M.Sc. Ag.	2 yrs.	B. Sc. (Ag)	,,	••	, ,			15/ p.m. to specified students b) Rs. 55		
		A								p.m. for S.C. student	s	••
		Agronomy Genetics & Plant	,,	,,	,,	••	,,	• .	"	**		14
		Breeding	"	>>	,,	••	,,	••	,,	,,		13
		Agricultural Chemistry	,,	"	,,	••	,,	••	**	,,		9
		Plant Pathology Horitculture	"	"	,,	• •	,,	••	"	,,		11
		Economics	"	,,	**	••	, , ,	• •	>>	,,		16 17
		Extension	,, ,,	»» »	" "	••	**	••	,,	,,		17
		Animal Husban-	,,	,,	,,		>, ,,	••	>> >>	,, ,,		4
		dry & Dairying					,,			,,		•
		Soil Cnservation	,,	,,	,,		,,	••	,,	,,		9
		Plant Physiology	,,	,,	,,	• •	,,	••	,,	,,		8
		Entomology	,,	**	**	••	**	••	,,	"		13
		Ph D.		•								
		Agronomy	3 yrs.	M.Sc. Ag.	Direct	Doctorate	Yes	Kanpur	20.00 p.m.	Rs. 200 for 20 students	July-Aug.	••
		Genetics & Plant Breeding	"	,,	"	,,	,,	,,	,,	,,	,,	7
		Agricultural Chemistry	,,	,,	>>	>>	,,	,,	,,	**	,,	5
		Plantahology	,,	,,	,,	,,	**	,,	,,	,,	,,	4
		Aga Hostialine	,,	,,	,,	,,	,,	,,	,,	,,	,,	9
		Agricultural Economics	,,	33	• • •	"	,,	"	**	33	3.9	5

1	2.	3	4	5	6	7	8	9	10	11	12	13
		Animal Husbandry	3 Years.	M.Sc.Ag.	Direct	Doctorate	Yes	Kanpur	R s.20 p.m.	Rs ,200 for 20 students	July- Aug.	1
	•	Soil Conservation	,,	,,	,,	>>	,,	,,	**	**	"	••
		Plant Physiology	,, .	,,	,,	,,	,,	,,	,,	"	· ,,	ï
		Extensgor	"	"	**	**	,,	**	**	**	,,	
		Zoology	**	**	"	"	"	**	,,	"	**	 6
		Plantahology	**	,,	**	,,	"	**	,,	"	,,	Ū
157	V.S.S.D. College, Nawab	B. Ed.	1 Year.	B.A.	Direct	Graduate	Yes	Kanpur	Rs. 30.14	Nil	July	200
	Ganj, Kanpur.	L.L.B.	3 Years.	,,	,,	,,	,,	,,	Rs. 20.16	,,	_ **	600
		M. Com.	2 Years.	B. Com	"	Post- Gaduate	Yes	Kanpur	Rs. 20.16	Nil	July	60
		M.Sc. Chemistry	.,	B.Sc.	,,	,,	,,	,,	R s. 22.46	,,	,,	70
		M.Sc. Physics	"	,,	,,	,,	,,	,,	Rs. 22.46	,,	33	50
		M.A. English	,,	B.A.	,,	,,	,,	,,	Rs. 20.10	,,	,,	35
		M.A. Economics	,,	B.A. (Eco)	,,	"	,,	,,	,,	,,	,,	100
		M.A. History	,,	B.A. (History)	,,	"	,,	,,	>>	,,	,,	20
		M.A. Geography	,,	B.A. (Geog)	,,	,,	,,	**	,,	,,	,,	80
		M.A. Sanskrit	,,	B.A. (Sanskrit)	,	,,	,,	,,	,,	,,	,,	50
		M.A. Sociology	,,	B.A. (Sociology	⁷),,	,,	,,	,,	,,	,,	"	20
		M.Sc. (Maths)	•,	B.Sc. (Maths)	,,	,,	,,	,,	Rs. 22.40	,,	,,	55
		M.A. (Military Sc.)	,,	B.Sc.	,,	,,	,,	,,	Rs. 22.10	••	,,	30
		M.A. (Hindi)	• •	B.A.	,,	,,	,,	,,	,,	••	,,	35
		M.A. (Pol. Sc.)	"	B.A.	**	**	,,	**	,,	••	,,	50
158.	U.S.S.D. College, Kanpur.	B.S.c.	2 Years.	Intermediate	By Ad- visory Committ	Graduate ee	Yes	Kanpur	Rs. 20.00		July	266
		B. Com.							Rs. 10.00		,,	366
		L.L.B.	3 Years.	Graduate	,, ,,	>> >>	,, ,,	**	Rs. 20.00		,,	506
159.	Vishnu Shilp Kala Kendra, 140-A, Block-Juhi Colony, Kanpur.		2 Years.	VIII	Direct	Certificate	No		Rs. 5.00		July	99

APPENDIX X--Contd.

Appendix X (PART B)

OUT-TURN FROM THE EDUCATIONAL INSTITUTIONS BY LEVEL OF EDUCATION

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Certificate Level Courses

	Trade/Course	Duration	of Course	Number of Seats	Actual out- turn during	Likely out-turn
_		Year	Months	Seats		uring next 5 years
	1	2	3	4	5	
ME	DICAL					
	Lab. Technician	1		40	32	170
2.	Electro Complex	1		15	3	40
3.	•	1 <u>1</u> 2 <u>1</u>		55	11	60
Enc	GINEERING/TECH					
1.	Leather work	2	• •	20	2	10
2.	Draughtsmen Civil	2		32	12	80
3.	" Mech			64	23	160
4.	Electrician	,,		160	70	260
5.	Electroplater	,,		16	••	30
6.	Fitter	**		320	85	790
7.	Mech. Instrument	**		64	19	160
8.	Electronics	**	••	64		160
9.	Grinder	,,		24	1	60
10.	Machinist Composite	58	••	84	16	210
11.	Shaper & Planer	>>	••	48	5	120
12.	Mech. Radio & Television	**	••	64	17	130
13.	Pattern maker (Wood)	**	••	16		20
14.	Surveyor	3 >	••	32		80
15.	Turner	**	••	168	38	440
16.	Tool & Die maker	,,	••	64	2	110
17.	Wireman	**	••		21	180
18.	Carpenter	**	••	80 16		80
10.	Motor Mechanic	>>	••	16	52	330
20.	Tractor Mech.	"9	• •	80		80
21.		۲ ۵	••	16	•••	160
	Mech. Refrigeration & Air Conditioning	1	••	32	28	
22.	Moulder	17	••	32	10	100
23.	Painter	,,	••	3 2	17	100
24.	Plumber	,,	••	16	6	80
25.	Sheet metal worker	,,	••	16	13	80
26.	Welder Gas & Elec.	,,	••	48	46	240
27.	Sugar Engg.	,,	••	6	6	30
28.		,,	6	34	32	160
29.	Khandsari Sugar Supervisor	**	9	7	6	30
Voo	CATIONAL				•	
1.		1		16	1	30
2.	Compositor hand & proof reading			16	10	60
3.	Printing Machine Operator	79		16	9	50
4.		,			-	
•	for Boys			32	24	150
	for Girls	9 ;	••	32	31	160

Appendix	X-Contd.
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(PART B)

(*,	AKI D)				
1	2	3	4	5	6
5. Sienography English:					
Boys	1		32	39	160
Girls	1		32	29	160
6. Cutting & Tailoring Women	I		48	62	240
7. Embroidery (Women)	1	••	32	10	100
Teaching					
Instructor's Course for Engg/Vocational Trades					50
1. Electrician	1	••	20	10	50
2. Fitter	1	••	40	8	40
3. Machinist	I	••	32	8	40
4. Motor Mech.	1	••	20	14	70
5. Turner	1	••	32	8	40
6. Wireman	1	••	20	16	80
7. Welder	1	••	16	3	20
8. Cutting & Tailoring	1	••	20	20	20
9. Weaving	1	••	20	30	
10. Printing	1	••	36	••	40
Education					0.460
B.T.C.	1	••	570	4 9 9	2460
Diploma Level					
Medical					
General Nursing	3		425	337	1448
Midwifery	••	6	20	19	9 5
Auxiliary Nursing	2		110	85	360
Head Nursing	2	••	100	70	350
Pharmacist	1		120	91	455
B.M.S. (Homeopathy)	4		200	123	615
Eng./Tech.					
Tanning Tech.	2		10	8	50 50
Footwear Tech.	2	••	20	9	50
Textile Tech.	3	••	20	4	30
Textile Chemistry	3	••	10	2 14	50 70
Civil Engg.	3	••	60 100	14 55	70 275
Elect. Engg.	3	••	120	55 75	375
Mech. Enggl	3	••	120 10		25
Chemieal Engg. Electronics	4	••	30	• •	130
Instrument Engg.	3 1	••	10	 7	40
	1	••	10	,	
Fellowship in National Sugar Instt : N.S.I.					
(i) Sugar Tech.	0		0	9	45
(ii) Sugar Chemistry	3	••	9	9	ŦJ
(iii) Alcohol Tech.					
(iv) Sugar Engg.					
Associateship of N.S.I.	0.1		52	48	196
(i) Sugar Tech.(ii) Sugar Engg. •	2 <u>4</u> 1	••	13	12	60
		••	30	28	140
Diploma in Industrial Fermentation in Alcohol Tech.	1	••	50	20	110
GRADUATE LEVEL					
Medicine 1. M.B.B.S.	4 1		190	199	1000
1, 11,11,11,13,	+ 1 ye	ar Internship	100		1000
2. Nursing	2	••	12	12	60

		(PART B)				
	ŀ	2	3	4	5	6
Engg	r./Tech.					
1.	B.Sc. Chemical Engg.	. 4		40	42	200
2.	B.Sc. Electrical Engg.	4		37	37	150
3.	B.Sc. Mechanical Engg.	4	••	30	28	145
4.	B.Sc. Civil Engg.	4	• •	20	12	70
5.	B.Sc. Bio-Chemistry	3	••	30	10	100
6.	B.Sc. Paints	3	••	15	15	75
7.	B.Sc. Plastic	3	••	15	15	75
8.	B.Tech. Textile Technology	4		20	11	56
9.	B. Tech. Textile Chemsitry	4		10	8	44
0.	B.Tech. Aeronautical Engg.	5	••	10	6	40
1.	B.Tech. Chemical Engg.	5	••	60	55	275
12.	B.Tech. Civil Engg.	5	••	10	8	40
3.	B.Tech. Electrical Engg.	5		75	72	360
4.	B.Tech. Mechanical Engg.	5		65	60	300
5.	B.Tech. Metallurgical	5	••	35	28	140
) the	ers					
1.	L.T.	1	••	280	180	900
2.	B.Ed.	1		1675	1420	6665
3.	L.LB.	3	••	770	715	3575
4.	L.L.B.	2		170	139	695
5.	B.Sc. A.G.	3	• • •	120	80	400
6.	B.Sc.	2	• •	2427	992	4510
Ph. .						
Scie	nce Zoology	3		6		3
	Physics	3	• •	20	4	30
	Chemistry	3	••	26	14	7(
	Maths	3	••	13	7	3
	Physical Chemistry	3	••	15	1	
	Organic Chemistry	3	••	1	1	:
		0	••	67	27	14
En	gineering	·				14
	Plastic	3	••	14	•••	
	Oil, Paints	3	••	22	• •	
	Chemistry Engg.	3	••	2	• • •	
	Food & Bio Chemistry	3	••	3	••	
	Aeronautical	3	••	••	1	
	Chemical	3		10	2	1
	Civil	3	••	12	6	3
	Electrical	3	••	6	6	. 3
	Mechanical	3	••	9	3	1
	Metrological	3	••	4	1	
	Computor	3	• •	2	••	•
	Humanity	3	••	9	1	
	Natural Science	3	••	2	••	
A	griculture:	3		195	20	13
-8	Ag. Chemistry	3		6	3]
	Agronomy	3		N.A.		
	Genetics & Plant Breeding	3	••	7		
	Plant Pathology	3		4		
	Horticulture	3		9 -		
	Ag. Economics	3		5	1	

Appendix X—Contd.

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22—-1 DGE & T/ND/77

	(PART B)				
1	2	3	4	5	6
Ag. Extension	3	••	1	1	4
Animal Husbandry	3	••	N.A.	••	2
Soil Conservation	3	••	N.A.		. 4
Plant Psychology	3	• • •	1	••	4
			33+N.A.	5	45
Post-Graduate					
Medicine					
M.D.					
Physiology	2		2		8
Pharmacology	2	• •	- 2	••	6
Pathology	2	••	-5	••	8
Radiology	2	••	3	1	5
Tuberculosis	2	••	4	3	12
Social & Preventive Medicine	2		4	4	12
Paediatrician	2	••	4	3	12
Anaesthesiology	2	••	3	2	13
	· · · · · ·		27	13	76
Science-M.Sc.					
Physics	2	••	153	80	435
Chemistry	2	••	412	323	540
Maths	2		135+N.A		245
Statistics	2	••	86	24	12 0
Zoology	2	••	409	332	1655
Botany	2		302	245	1830
Natural Science	2		9	1	5
Computor	2	••	6	••	••
Agriculture					
M.Sc. (Ag.)					
Horticulture	2	••	16	11	55
Economics	2	•••	17	11	55
Extension	2	••	14	10	50
Animal Husbandry & Dairy	2	••	4	5	25
Entomology	2	••	13	11	55
Soil Conservation	2	••	9	8	40
Plant Pathology	2	••	11	9	45
Ag. Chemistry	2	••	9	10	50
Agronomy	2		14	16	80
Genetics & Plant Breeding	2	••	13	10	50
Plant Psychology	2		8	6	30
			128	107	535
M.S.					
Surgery	2	••	12	11	42
Anatomy	2	••	4	1	8
Orthopadist	2	••	3	3	12
Obst. & Gynacology	2	••	4	4	18
E.Ν.Τ.	2	••	3	1	10
_			30	22	100
D.M. in Cardialogy	2	••	3	1	- 8
Post graduate Diploma					
Laryngalogy & Octology	1	••	6	3	155
Gynacology & Obstetics	1		6	6	50
Medical Radiology	1	••	6	1	5
Opthalmic & Medicine Surgery	l	••	6	1	5
Clinical Pathology	1	••	6	3	12

Appendix X—Contd.

A	(PART B)				
1	2	3	4	5	6
Orthopadic Surgery	1		6		
Anaesthesialogy	1	••	6	••	12
Child Health	1	••	6	•• 6	30
Tuberculosis & Chest Diseases	1	••	6	5	25
ruberculosis a carist Diseases		••	54	25	149
Engineering M.Sc. (Engg.)					
Chemical Practice	2	••	10	4	29
Chemical Design	2	••	10	1	20
Electrical/Mechanical	3		10	New Programme	
Industrial Maths	2		10	New Programme	
	2	• •	40	5	49
TECHNOLOGY					
M. Tech.					
Bio-Chemistry	2	4-4	5	1	8
Food	2		5	••	15
Oil	2		5	3	20
Paints	2	***	5	2	12
Plastic	2	• •	5	3	18
Aeronautical Engg.	2	***	19	4	20
Chemical Engg.	2	••	26	26	130
Civil Engg.	2	e 14	17	15	75
Electrical	2	••	41	39	195
Mechanical Engg.	2	•••	39	24	120
Metallurgical	2	-	22	13	65
Arts			184	130	678
<i>M.A.</i>					
Hindi	2	**	451	281	13 9 0
English	2	-	1 9 8	126	625
History	2	-	180	121	605
Political Science	2		382	233	1110
Economics	2	••	632	530	2 64 5
Geography	2	•-•	345	248	1420
Drawing & Paints	2		161	81	405
Music	2		80	26	130
Sanskrit	2	••	249	129	645
Psychology	2		358	242	1210
Sociology	2	•••	390	335	1645
Philosphy	2	••	20	14	70
Military Science	2	•••	30	23	115
Urdu	2		60	10	50
ordu	2	••	3536	2399	12065
Commerce				•	
M.Com.	2	• /•	560	358	1790
Education					
M.Ed.	1	•• *	7 4	59	245
M.Ed.	2	•••	24	24	120
		••	98	83	365

Appendix X-Contd.

	Name of Institution	Trade/Course	Entry Qualifications	Duration of course	Number of seats	Scholarship, Stipend if any
	1	2	3	4	5	6
		MEDICAL				·
1.	L.L.R. Associated Hospitals, Kanpur	General Nursing (Dip.)	High School	3 years	67	130 -0 0 p.ni
2.	Upper India Sugar Institute Maternity Hospital, Kanpur.	Midwifery (Dip.)	High School	6 months	20	30-00 p.m
3.	College of Nursing, GSVM Medicai College Building, Kanpur.	Nursing (Post- Basic Degree)	 (i) Inter (ii) Diploma in Nursing. (iii) 3 yrs. experience 	2 yrs.	12	
4.	GSVM Medical College, Kanpur.	(1) Lab Technic	as Staff-Nuise. High School (Sc.)	l yr.	40	30-00 p.m.
		(Ĉet.) (2) Pharmacist (Dip.)	High School (Sc.)	1 yr.	120	40-00 p.m. for male 60-00 p.m. female
		(3) M.B.B.S. (Degree)	Inter with Biology.	4 1 yrs. 1 yr. Intensh	190 nip.	
		Post-Graduate Degrees (1) M.D.	:			
			 (i) M.B.B.S. (ii) I year house job done from recognised Hospital in case of clinical subjects or 1 yr. Exp. as Demonstrator/ Curator/Registrar in case of Non- clinical subjects. 			
		Diploma :	(i) M.B.B.S.	l year		
		Laryngology & Octology	 (ii) 1 yr. house job or 1 yr. experience as De trator/Curator Registr 		6	
		Gynaecology & Obstetrics	in case of non-clerical subjects.		6	
		Medical Radiology Electricity	· & ,,	l y ear	6	
		Opthalmics & Medicine Surgery	**	l year	6	
		Clinical Pathology	**	l year	6	
		Orthopaedic Sur g ery	"	l year	6	
		Anaesthesiology	,,	l year	6	
		Child health	**	l year	6	
		Tuberculosis & Chest Diseases	"	l year	6	
5.	Ursala Hospital, Kanpur.	(i) General Nursing (Dip.)	High School	3 yrs.	200	30.00
		(ii) Head Nursing (Dip.)	Inter	2 y r s.	100	50-00
6	A.M.H. & Duffrin Hospital. Parade, Kanpur.	General Nursing (Dip.)	Hi g h School	3 yrse	158	30.00
7.	Auxiliary Midwife Training Centre, Sutergang, Kanpur.	Auxiliary Nursing	VIII	2 yrs.	80	75.00
8.	S.T. Catherine Hospital, The Mall, Kanpur.	Auxiliary Nursing (Dip.)	VIII	2 yrs.	3 0	75 •00

Details of Educational Institutions by leave of Education

		(PART	C)			
	1	2	3	4	5	6
).	Kanpur Homeopathatic Medical College Building, G.N.N. Building Civil, Lines, Kanpur.	B.M.S. (Dip.)	Inter	4 yrs.	200	
	-	Medicine	 (i) M.B.B.S. (ii) 1 year house job done from recognised Hospital in case of clinical subjects or 1 yr. more Exp. as Demonstrator/ Curator/ Registrar in case of non- clinical subjects 	2 yrs.	р	s. 250.00 m. to select: i students.
		Physiology	"	2 yrs.	2	**
		Pharmacology	,,	2 yrs.	2	,,
		Pathology	**	2 yrs.	5	.,
		Radiology	,,	2 yrs.	3	
		Tuberculosis Social and	"	2 yrs.	4	
		Preventive medicine	>>	2 yrs.	4	
		Paediatrics	,,	2 y rs.	4	
		Anaesthesiology (iv) M.S.	33	2 yrs.	5	
		Surgery	"	2 y rs.	12	
		Anatomy	,,	2 yrs.	4	
		Orthopadist	• ,,	2 yrs.	3	
		Ophthalmology	**	2 yrs.	4	
		Obst. & Gynacology	33	2 yrs.	4	
		E.N.T.	. ,,	2 yrs.	3	
		(\mathbf{V}) D.M.			J	
		Cardiology	M.S. in medicine Paediatrics	2 yrs.	3	•
		(vi) Post-Graduate	As in case of M.D. & M.S.	1 yr.		
0.	Electro Complex Homeopathetic College & Cancer Hospital, 125/38, 'K' 'K'	(i) Electro- Complex (Cet.)	M.A./ M.Sc.	l yr.	200	
	Block, Govind Nagar, Kanpur.	(ii) Homeopathet (Cet.)		l‡ yrs.	15	
		(iii) Corresponden course in Homeo pathetic (Cet.)	ice High School - or Inter	1 1 y1s. 2 yrs.	20	
			'ECHNOLOGY/VOCA		20	
11 .	Indian Institute of Technology, Kalyan- pur, Kanpur.	<i>B.Tech. Degree</i> 1. Aeronautical	Higher Secondary or Ir with Sc.	nt e r 5 years.	10	Rs. 75 p. m to 25% of students.
		2. Chem. Engg.	"	5 yrs.	60	
		3. Givil Engg.	33	5 yrs.	10	>>
		4. Elect. Engg.		5 yrs.		"
		5. Metallurgical	**	5 yrs. 5 yrs.	75	>>
		Engg. 6. Mechanical	>) 39	5 yrs.	- 35 65	39
		Engg. M. Tech. (P.G. Degree)	~	- ,	00	33
		1. Aeronatical	B.Tech./B.Sc. Engg.	2 yrs.	10	250
		2. Chemical		2 yrs. 2 yrs.	19 26	250 p.m.
		3. Civil	33	-	26	**
			**	2 yrs.	17	3,

-

			(PART)				
	1		2	3	4	5	ü
	Indian Institute of Technology-Contd.	4.	Electrical	33	2 yrs.	41	Rs. 250/- p.m
		5.	Mechanical	,,	2 yrs.	39	,,
		6.	Metallurgical	,,	2 yrs.	22	,,
		Dec	torate Mech.				
		1.	Aeronautical	M. Tech.	3 yrs.	ΝΔ	Rs. 400 p.m
		2.	Chemical		3 yrs.	10	
		3.	Civil	**	3 yrs.	10	,,
		4.	Electrical	>>	3 yrs.	6	**
		5.	Mechanical	"	3 yrs.	9	"
		6.	Metallurgical	"	3 yrs.	4	,,
			-	,,	0)		,,
			. SCIENCE				
		M.S					
		1.	Chemistry		2 yrs.	13	Rs. 75 p.m.
					٠		
		2.	Maths.		2 yrs.	6	
		3.	Statistics		2 yrs.	6	,,
		4.	Physics		2 yrs.	10	,,
		5.	Computor		2 yrs.	6	,,
			-		-)	v	,,
			torate in Sc.				
			emistřy	M.Sc.	3 yrs.	21	N. A .
			aths.	**	3 yrs.	11	• •
			ysics	"	3 yrs.	12	:•
			manity	"	3 yrs.	9	**
		Co	mputor	,,	3 yrs.	2	*>
•	Government Leather Institute, Gwaltoli, Kanpur.		<i>tifisate</i> Leather Work	VIII	2 yrs.	20	16 p.m.
	•	Dip	oma				-
		1.	Tanning Tech.	High School	2 yrs.	10	30 p.m.
				High Sch. Pref. with			
		2.	rootwear reen.	Sc.	2 yrs.	20	" p.m.
		Gra	aduate Engg.				
3.	H.B.T.I., Nawabganj, Kanpur.	1.	B.Sc. Chem. Engg.	Inter (with Physics)	4 yrs.	40	75 p.m. to 25% of
		2.	B.Sc, Electrical	• •	4 yrs.	37	Students
		3.	Engg. B.Sc. Mechanic	al "	4 yrs.	30	,,
		4.	Engg. B.Sc. Civil Eng		4 yrs.	20	
				1 0 . ,;	- /•	20	**
		B.T 1.	Bio Chemical	B.Sc. with Physics,	3 yrs.	30	۶,
		~	& Food Tech.	Chemistry	0		
			Oil	"	3 yrs.	15	**
		3.	Paints	>>	3 yrs.	15	31
		4.	Plastics	,,	3 yrs.	15	
			ST GRADUATE				
			c. Engg. Chem. Engg. & Plastics.	B.Sc. Engg.	2 yrs.	10	250 p.m.
		~	Plastics. Chemical Engg	• 33	2 yrs.	10	250 p.m.

		(PART (C)		. <u></u>	<u></u>
	1	2	3	4	5	6
3.	H.B.T.I., Nawabganj KanpurContd.	3. Electrical/ Mech./Indust	B.Sc. Engg. rial	3 yrs.	10	Rs. 250/
		4. M.Sc. Maths.	**	2 yrs.	10	*1
		M.Sc. Tech.				
		Bio-Chemistry	B.Sc. Tech.	2 yrs.	5	250 p.m.
		Food	**	2 yrs.	5	**
		Oil Paints	>>	2 yrs.	5	**
		Plastics	>>	2 yrs. 2 yrs.	5 5	,,
			22	2 y13.	5	**
		Dostorate	M.Sc.	9	0	DI A
		Physics Chemistry		3 yrs.	8 4	N .A.
		Plastics	" M.Sc. Tech.	3 yrs. 3 yrs.	14	,,
		Maths	M.Sc.	3 yrs.	2	,,
		Oil & Paints	M.Sc. Tech.	3 yrs.	22	>) >)
		Chemical Engg.	M.Sc. Engg.	3 yrs.	2	,,
		Food & Bio-	M.Sc. Tech.	3 yrs.	2	,
		Chemistry.		÷		
		DIPLOMA				
•	ganj, Kanpur.	1. Textile Technology	High School with Sc.	3 yrs.	20	Rs. 30 p.1
		2. Textile Chemistry DEGREE	;;	3 yrs.	10	Rs. 30 p.n
		1. Textile Technology	Intermediate Sc.	4 yrs.	20	Rs. 75 թ ռ
		2. Textile Chemistry	39	4 yrs.	10	;,
		CERTIFICATE				
	National Sugar Institute, Kalyanpur, Kanpur.	1. Sugar Engg.	Diploma in Engg.	1 yr.	6	NA.
	ranput.	2. Sugar Biology 3. Khandsari Supervisor	High School with Sc.	6 months 9 months	34 7	>> >>
		4. Khandsari Karigar	VIII	4 months	N.A	• ,,
		FELLOWSHIP	×			
		1. Sugar Techno.	Associateship course of N.S.I. in Sugar Engg.	3 yrs.	9	N.A.
	•	2. Sugar Chemistr		3 yrs.	5	
		3. Alcohol	, ,, ,,	3 yrs.	5	"" "
		Technology		,		,,
	·	4. Sugar Engg.	**	3 yrs.	5	,,
		ASSOCIATESHIP				
	- **	1. Sugar Tech.	B.Sc. with Maths 45% marks	2 1 yrs.	52	N.A.
		2. Sugar Engg.	Degree in Elect./ Mech. Engg.	l yr.	13	,,
		DIPLOMA				
		Industrial Fermentation in Alcohol Techno. (DIFAT)	Associateship Sugar Tech. or B.Sc. with exp. in Distrillary.	1 yr.	30	N.A.
		RESEARCH FOR H	h.D.			
		1. Physical Chem.		3 yrs.	1	N.A.
		2. Organic Chem.		3 yrs.	1	,,

	1		2	3	4	5	6
	National Sugar Institute-Contd.	3.	Bio-Chemistry		3 yrs.	1	N.A.
			Agri-Chemistry		3 yrs.	1	,,
		DIN					
			LOMA		. .	60	A Stat
•	Govt. Polytechnic, Kalyanpur, Kanpur.	1.	Civil Engg.	High School with Sc. at least 40% marks in Sc. & Maths.	3 yrs.	60	As per Stat Govt. Orders fo different categories
		2.	Elect. Engg.	,,	3 yrs.	120	,,
		3.	Mech. Engg.	,,	3 yrs.	120	••
		4.	Chemical Engg.		4 yrs.	10	,,
		5.	Electronics	,,	3 yrs.	30	**
			Industrial Engg (Post-Diploma)	. Diploma in Elec./ Mech. Engg.	l yr.	10	"
		CEF EN(TIFICATE GG.				
•	Industrial Training Institute, Pandu Nagar, Kanpur.		Drauftsman ivil.	High School with Sc.	2 yrs.	32	Rs. 25 p.1 to 33%
		2.	" Mech.	-93	2 yrs.	64	, ,,
		3.	Electrician	,,	2 yrs.	128	,,
		4.	Electroplater	High School	2 yrs.	16	Rs. 25 p. to all. Rs. 25 p.
		5.	Fitter	VIII	2 yrs.	288	to 33%
		Ir	Mechanic strument.	High School	2 yrs.	68	23
		7.		››	2 yrs.	64 94	,,
		8.		VIII	2 yrs.	24 72	"
			Mech. Compo- te. Mech. Shaper,	» »	2 yrs. 2 yrs.	48	99
		Si P	hofter and laner.			10	
		v	Radio & Tele- ision Mech.	High School Sc.	2 yrs.	48	»,
			Pattern -Maker Wooden)	,,,	2 yrs.	16	Rs. 25 to
		13.	Surveyor	**	2 yrs.	32	»,
		14.	Turner	VIII	2 yrs.		Rs. 25 to 33%
			Tool and Die Iaker.	High School Sc.	2 yrs.	32	"
		16.	Wireman	VIII	2 yrs.	64	,,
		17.	Carpenter	> ?	l yr	16	25 to all
		18,	Motor Mech.	,,	l yr	64	25 p.m.
		19.	Tractor Mech.	,,	l yr	16	,,
		g	Mech. Refri- eration and Air-	High School Sc.	l yr	32	• :
			onditioning Moulder	VIII	l yr	32	25 p.m. all
		22.	Painter	,,	1 yr	32	,,
			Plumber	,,	l yr	16	,,
		24.	Sheet Metal Worker		l yr	16	
			Welder Gas Elect.	,,	l yr	48	25 p.m. 33%

		Appendix (PAR				
1		2	3	4	5	6
	VO	CATIONAL				
7. Industrial Training		Boys				
Institute, Pandu Nagar, Kanpur—Contd.		Book Binding	VIII	1 yr.	16	As decided by Adv. Committee
	2.	Cutting & Tailoring	ډې	1 yr.	32	>>
	3.	Hand Compo- sition and Pr Reading.	roof "	1 yr.	16	>;
	4.	Printing Machine Op	erators "	1 yr.	16	,,
	5.	Stenography Hindi.	High School	1 yr.	32	••
	6.	Stenography English.	"	1 yr.	32	,,
	• •	Girls				
		Cutting & Tailoring	VIII	1 yr.	48	**
	2.	Embroidery	,,	1 yr.	3 2	••
	3.	Knitting & Weaving Machine	>>	1 yr.	16	",
	4.	Stenography Hindi	High School	lyr.	32	**
	5.	Stenography English.	,,	1 yr.	32	**
. Central Training Institute for Instructor fov indnagar, Kanpur.	s Inst Coi		(ii) Certificate in trade (NCTVT)	l yr. for all the		,,
		D1	(iii) 5 yrs. Exp.		20	
	1.		**	**	20 40	**
	2. 3.	Fitter Machinist	›› ››	», »,	32	,, As decided by Adv. Committee
	4.	Motor Mech.	,,	,,	20	,,
	5.	Turner	,,	,,	32	,,
	6.	Wireman	,,	,,	20	••
	7.	Welder	,,	,,	16	,,
		Cutting & Tailoring	"	,,	20	**
		Weaving	,,	**	20	• •
	vo	Printing CATIONAL ADE	;;	>>	36	,, 25 p.m. to
Do. (Model Training Institute)		Welder	VIII	l yr.	34	33 1/3 % ● Students
	2.	Motor	"	1 yr.	16	Student
	3.	Cutting & Tailoring	••	l yr.	16	
	4.	Electrician	High School Se.	2 yrs.	32	
	5.	Fitter	VIII	² yrs.	3 2	
	6.	Machinist (Composite)	"	2 yrs.	12	
	7.		,,	2 yrs.	12	
	8.	Wireman	,, 	2 yrs.	16	
	9.	Tool & Die Maker	High School Sc.	2 yrs.	32 16	
	10.	Mech. Radio & Television.	,,	2 yrs.	16	

	1		2	3	4	5	6
	PROFESSIONAL, TRAINI	NG /	AND POST-GRA	DUATE COLLEGE	S/INSTITUT	IONS	
		Deg					
•	L.T. College (D.A.V. College Compoun L.T. Civil Lins, Kanpur.			Graduat e	1 yr.	280	N.A.
•	Dayanand Womens' Training College, Makrobertgaj, Kanpur		Ed. .Ed.	B.Ed./L.T.B.T.	1 yr. 1 yr.	240 24	»» »
		,,		,,	2 yrs.	24	,,
•	U.P. Institute of Agricultural Science, Nawabganj, Kanpur.	В.	Sc. (Agri.)	I.Sc. Agri. or I.Sc.	3 yrs.	120	Merit Scholarsh
		м	.Sc. (Agri.)	B.Sc. Agr. or I.C.	2 yrs.		1. Rs. 15 p.m. to 10 of Studen 2. Rs. 55 p.m. to a Schedule Caste Stu dents.
		1.	Agronomy	,,	2 yrs.	14	,,
		2.	Genetics &		2 yrs.	13	**
			Plant Breedin	,, ng	-, -		.,
		3.	Agr. Chemistry	***	2 yrs.	9	**
		4.	Plant Patholog	у "	2 yrs.	11	,,
		5.	Horticulture	3 9	2 yrs.	16	••
		6.	Economics	,,	2 yrs.	17	,,
		7.	Extension	33	2 yrs.	14	,,
		8.	Animal Hus-	,,	2 yrs.	4	,,
	• · · · ·	9.	. bandry & Da Soil Conserva- tion.	irying .	2 yrs.	. 9	>>
		10.	Plant Physio- logy.	"	2 yrs.	8	,,
			Entomology CTORATE	. ,,	2 yrs.	13	**
		(P h	.d.) Degree	M.Sc. Agri.	3 yrs.		200 p.m. 20 Studer
		1.	· ·	,,	3 yrs.	N.A.	,,
		2.	Plant Breedir	,, ng	3 yrs.	_	
		3.	(Agri.)	3 9	3 vrs.	7	,,
		4.	Plant Pathology	,,	3 yrs.	5	>>
		5.	Horticulture	,	3 yrs.	9	••
		6.	Economics	,, .	3 yrs.	5	,,
		7.	Extension		3 yrs.	1	,,
		8.	Animal Husbandry & Dairying	,, L	3 yrs.	N.A	• •,
		9.	Soil Conser- vation	,	3 yrs.	N.A.	,,
		10.	Plant Physiology	,,	3 yrs.	1	,,
			Entomology	••	3 yrs.	6	,,
	Dayanand Guis Cottege, Civil Lines, Kanpur.	В.: М.		I.Sc. B.A.	2 yrs. 2 yrs.	41	N.A.
		1.	Hindi	,,	2 yrs.	16	
			English	33	2 yrs.	13	
			History	,,	2 yrs.	15	
		4.	Pol. Sc.	,,	2 yrs.	22	
			·····				

			(PART				
	1		2	3	4	5	6
4.	· Dayanand Girls College, Civil Lines,	5.	Economics	B.A.	2 yrs.	30	N.A
	Kanpur,Contd.	6. 7.	Geography Drawing & Painting	,, ,,	2 yrs. 2 yrs.	28 16	
		8.	Painting Music	,,	2 yrs,	20	
		9.	Sanskrit	37	2 yrs.	19	
		10.	Psychology	>>	2 yrs.	24	
		M.S	с.	B.Sc.	2 yrs.		N.A
		1.	Physics	,,	2 yrs.	26	
		2.	Chemistry		2 yrs.	30	
		3.	Zoology	,,	2 yrs.	25	
		4.	Botany	,,	2 yrs.	20	
5.	D.A.V. College, Civil Lines, Kanpur	В.	Sc.	I.Sc.	2 yrs.	79 5	N.A.
		M.A		B.A.	2 yrs.		
			English	"	2 yrs.	40	
		2.	Hindi	,,	2 yrs.	100	
		3.	Sanskrit	**	2 yrs.	50	
		4.	Med. History	,,	2 yrs.	60	
		5.	Ancient "	"	2 yrs.	60	
		6.	Geography	,,	2 yrs.	200	
		7.	Pol. Science	33	2 yrs.	150	N.A.
		8.	Philosophy	,,	2 yrs.	20	N.A.
		9.	Economics	• • •	2 yrs.	~ 3 00	
		10.	Sociology	"	2 yrs.	150	
		11.	Physiology	,,	2 yrs.	60	
			Drawing	,,	2 yrs.	70	
		M.C		B.Com.	2 yrs.	500	N.A.
		M.Se		B.Sc.	2 yrs.	500	N.A.
	•	1.	Maths.	**	2 yrs.	10	
			Chemistry	» ·	2 yrs.	200	
			Zoology	"	2 yrs.	350	
			Botany Statistics	"	2 yrs.	200	
				33	2 yrs.	80	
5.	Brahma Nand Degree College, The Mall, Kanpur.	Μ	c. (Phy. Chem. aths.)	Intermediate	2 yrs.	639	N . A .
			e. (Bio.)	Intermediate Sc. (Bio.)	2 yrs.	639	37
		L.L	.B.	Graduate	2 yrs.	40	39.
		,,		33	3 yrs.	- 20	,,,
	P.P.N. Post Graduate College, Kanpur	B.Sc	;	I.Sc	2 yrs.	300	
		M.A	۱.	В.А.	2 yrs.		". N.A.
		١.	Hindi	,,	2 yrs.	20	
		2.	Economics	,,	2 yrs.	32	"
			Psychology	57	2 yrs.	3.1	
		4.	Gcography	,,	2 yrs.	40	
		M.Sc	. ~	B.Sc.	2 yrs	• '	N.A·
		1.	Physic s	· · ·	2 yrs.	35	× 1., 1.
	69	2. (Chemistry	,,	2 yrs.	30	
	•		Maths.	,,	2 yrs.	20	
.	V.S.S.D. Post-Graduate College,	B.Ec	1.	Graduate	l yr.	200	N.A.
	Nawabganj, Kanpur.	L.L.		,,	3 yrs.	600	35
		B.Sc		I.Sc.	2 yrs.	266	

Appendix X—Gotdn.

(PART C)												
1		2	3	4	5	6						
	V.S.S.D. Post-Graduate College,	M.A.	Graduate	2 yrs.	35	N.A						
	Nawabganj, Kanpur.—Contd.	English	,,	2 yrs.	100							
		Economics	>>	2 yrs.	20	,,						
		History	,,	2 yrs.		,,						
		Geography	"	2 yrs.	80 50	,,						
		Sanskrit	33	2 yrs.	50	,,						
		Sociology	,,	2 yrs.	20	,,						
		Military	,,	2 yrs.	3 0	,,						
		Science	,,	2 yrs.								
		Hindi	,,	2 yrs.	35	,,						
		Pol. Science	,,	2 yrs.	50	,,						
		M.Sc.	B.Sc.	2 yrs.								
		Maths,	,,	2 yrs.	55	,,						
		Physics	,,	2 yrs.	50	,,						
		Chemistry	>>	2 yrs.	70	,,						
		M.Com.	B.Com.	2 yrs.	60	,,						
	Dayanand College of Law, Civil Lines,	L.L.B.	Graduate	3 yrs.	150	N.A.						
	Kanpur.	L.L.B.	"	2 yrs.	130	ور						
	R.S. Gram Udyog Post-Graduate College, Pukhrayan Distt., Kanpur.	M.A. Hindi	Graduate	2 yrs.	60	N.A.						
	D.B.S. College, Govind Nagar, Kanpur,	B.Ed.	Graduate	l yr.	480	N.A.						
•	D.D.D. Contest, Contracting ()	B.Sc.	I.Sc.	2 yrs.	135	,,						
		M.A.	Graduate	2 yrs.	N.A.	, , ,						
		Hindi	**	2 yrs.	,,	,,,						
		English	99 9	2 yrs.	,,	,,						
		Economics		2 yrs.								
		Pol. Science	,,	2 yrs.	,,	,,						
		Sociology	**	2 yrs.	**	:;						
		History	"	2 yrs.	,,	,,						
		•	>>		**	,,						
	۰,	M.Sc.	I.Sc.	2 yrs.	,,	N.A.						
	۱.	Physics	""	2 yrs.	22	,,						
		Chemistry	**	2 yrs.	45	,,						
		Maths.	**	2 yrs.	N.A.	,,						
		Zoology	,,	2 yrs.	22	••						
		Botany	,,	2 yrs.	22	;,						
	Mahila Mahavidyalay, Kidwai Nagar,	B.Ed.	Graduate	1 yr.	160	N.A.						
	Kanpur.	26.4	Graduate	2 yrs.		N: A						
•	Juhari Devi Girls Degree College, Canal	<i>M.A.</i> Hindi	oracuate ,,	2 yrs.	60	N.A. ,,						
	Road, Kanpur.	Drawing &	39	2 yrs.	60	;,						
		Painting		2 yrs.	60							
		Psychology Music	,, ,,	2 yrs.	60	,,						
	and the second second	B.Sc.	I.Sc.	2 yrs.	300	,, N А.						
	Christ Church College, The Mall, Kanpur.	M.A.	Graduate	2 yrs.		· · · · · · · · · · · · · · · · · · ·						
	Kanput.	Hindi	**	2 yrs.	60 60	,,						
		English Economics	••	2 yrs. 2 yrs.	$\begin{array}{c} 60\\120\end{array}$,,						
		Sociology	**	2 yrs. 2 yrs.	60	,,						
		-	**	-	60 60	**						
		Pol. Science	" B S a	2 yrs.	00	,,						
		(1)	B.Sc.	0	0.4	**						
		Chemistry	59	2 yrs.	24	,,						
		Physics	"	2 yrs.	10	,,						
		Botany	,,	2 yrs.	10	,,						
		Zoology		2 yrs.	6	,,						
		Maths.	,,	1 yr.	50	, .						

	1	2	3	4	5	6
5.	Acharya Narendra Dev. Mahapalika, Kanpur.	B.Ed.	Graduate	l yr.	250	N.Λ.
		B.Sc.	I.Sc.	2 yrs.	149	,,
		<i>M.A</i> .	Graduate	2 yrs.		
		English	,,	2 yrs.	50	,,
		Hindi	,,	2 yrs.	50	"
		Sanskrit	,,	2 yrs.	60	
		Art.	,,	2 yrs.	15	,,
		Psychology	,,	2 yrs.	100	,,
		Economics	"	2 yrs.	50	,,
		History	,,	2 yrs.	25	,,
		Pol. Science	>>	2 yrs.	50	,,
		Sociology		2 yrs.	100	"
		M.Sc.	,, B.Sc.	-	100	,,
				2 yrs.	5.0	-93
		Botany D. E.J.	· · · · · · · · · · · · · · · · · · ·	2 yrs.	50	, ,,
	·	B.Ed.	B.Ed./L.T. B.T.	l yr.	50	,,
6.	Haleem Muslim Degree College, Haleem Compound, Chamanganj, Kanpur.	B.E.d. <i>M.A</i> .	Graduate	1 yr.	165	N.A.
			**	2 yrs.		N.A.
		Urdu	,,	2 yrs.	60	,,
		Sociology	,,	2 yrs.	60	,,
7.	S.N. Sen Vidyalaya, Kanpur.	B.Sc.	Graduate	1 yr.	102	N.A.
8.	Jrwala Devi Vidyamandir Degree Col- lege, Anand Bagh, Kanpur.	<i>M.A.</i>	Graduate	2 yrs.		
0.		Hindi	<i>,,</i>	$\frac{2}{2}$ yrs.	50	N.A.
		Pol. Science	"	2 yrs.	50	,,
		Sanskrit	;;	2 yrs.	50	,,
9.	International Centre College of Educa- cation, Brijendra Swaroop Park, Kanpur.	B.Ed.	Graduate	l yr.	180	33 33
0.	Central College of Management, 9/63, Aryanagar, Kanpur.	Diploma Business Manage- ment. Marketing Management.	Creations	1		
			Graduate	l yr.	15	N.A.
•			"	l yr.	15	,,
		Company Management. <i>Certificate</i>	"	2 1 yrs.	15	,,
1.	Govt. Normal Girls School, Pandunagar, Kanpur.	•	High School	l yr.	100	30/ to a
2.	Govt. Normal School, Bithoor, Distt. Kanpur.	В.Т.С.	High School	1 yr.	100	20/ to a
3.	B.P.M.G. Inter College (Trg. Section), Mandhana, Distt. Kanpur.	В.Т.С.	High School	l yr.	60	,,
4.	Govt. Normal School, Pukhrayan, Distt. Kanpur.	B.T.C.	High School	1 yr.	100	••
5.	Rajkiya Diksha Vidyalaya, Narval, Distt. Kanpur.	B.T.C.	High School	1 yr.	150	"
i.	Gyan Bhartiya Balika Inter College (B.T.C. Section), Birahana Road, Kanpur.	B.T.C.	High School	l yr.	60	20/ to a
7.	District Manager, Telephones, M.G. 7 Road, Kanpur.	Celephone Operator.	High School	1 month	N.A.	•••
5.	Govt. Community & Canning Centre West Cott., Building, The Mall, Kanpur.	Fruit Preservation Lit. 10-15 days			. 22	••
ther	Piofessional!Vocational Courses by Unrecognised	d Institutions				
HC	RTHAND TYPEWRITING					
	Rajiv Typing Centre, 15/46, Civil Lines,	(i) Eng. Shorthand	High School	6 months	00	
•		(ii) Eng./Type			30	••
	Kanpur.	()	,,	6 months	45	• •

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	(PART C)									
	1		2	3	4	5	6			
2.	United typing Institute, Gwaltoli, Kanp	ur (i)	Eng. Shorthand	High School	6 months	, 30				
		(ii)	Eng. type.	,,	6 months	60				
3.	Ram Typing Centre, 14/82, Civil Lines, Kanpur.	(i)) Short hand Eng. type.	"	6 months	15				
		(ii)	Eng.	,,	6 months	45				
4.	Sumee Type & Short hand, Aryanagar, Kanpur.	(i)	Shorthand Eng.	33	6 months	25				
		(ii)	Eng.Type	,,	6 months	50				
5.	Prem Commercial Institute, 118/183, Bumba Road, Kanpur.	(i)	Shorthand Eng.	,,	6 months	35				
		(ii)	Type Eng.	,,	6 months	35				
6.	Standard Typing Institute, 128/97F Block, Kidwainagar.		Shorthand Eng. Type Eng.	33	6 months 6 months	20 40	•			
7.	Arun Type College, 128/8D, Kidwai- nagar, Kanpur.	(i)	Shorthand Eng.		6 months	5	•			
8.	Das Type & Shorthand College, Govind- nagar, Kanpur.	· (i)	Eng. Short- hand.	***	6 months	5				
	-	(ii)	Hindi Shorthand.	,,	6 months	2				
		(iii)	Eng. Typing	,,	6 months	15				
		(iv)	Hindi Typing	,,	6 months	. 10				
9.	Ravi Type & Shorthand Institution,		Eng. Shorthand		6 months	8				
	Block 7, Govindnagar, Kanpur.		Hindi Shorthand	•,	6 months	8 '				
			Eng.Typing	: ,,	6 months	8				
		(iv)	Hindi Typing	,,	6 months	8				
10.	Dilip Shormand and Type Institution, 124/13, Govindnagar, Kanpur.		Eng. Shorthand Hindi Short- hand.	· · · · ·	6 months 6 months	25 25	•			
		(iii)	Eng.Type		6 months	100				
		· · ·	Hindi Type	•••	6 months	25	•			
	and the state of the state			**			• •			
11.	Jai Bharat Commercial Institution, Lal Kunwa, 178, Govindnagar, Kanpur.		Shorthand Eng. Shorthand Hindi.	,, ,,	6 months 6 months	5 7 50	•			
		(iii)	Type Eng.	- ,,	6 months	100				
	a	(iv)	Type Hindi	,,	6 months	40	•••			
12.	Kanpur Commercial College, 125/1, C Block, Govind Nagar, Kanpur.		Type English Type Hindi	99 33	6 months 6 months	60 60	•			
0	Janta Type Institute, Azad Nagar.	(i)	Type Eng.		6 months	7				
3.	Janta Type Institute, read Plagar.		Type Hindi	,, ,,	6 months	15	•••			
4.	Hind Commercial College, 59/2, Birhana	(i)	Type Eng.	,,	6 months	250	۰.			
	Road, Kaupur.		Type Hindi	"	6 months	250	••			
		• •	Shorthand Eng. Shorthand	,, ,,	6 months 6 months	300 200	• •			
5.	New Bharat Commercial Type College, Birhana Road, Kanpur.	(i)	Hindi Type Eng.	"	6 months	10	• •			
6.	Bharat Typewriting Institute, Karachi-	(i)	Type Eng.	,,	6 months	10	••			
7.	kana, Kanpur. Raj Commercial Institute, Karachikhana,	(i)	Shorthand		6 months	10	••			
	Kanpur.	(ii) ·	Eng. Fype Eng.	. ,,	6 months	23				
8.	Rajendra Typewriting School, 74/109, Dhankutti, Kanpur.		Type Eng.		6 months	50	••			
9.	Ramkrishna Commercial Institute,	(i)	Type Eng.	,,	6 months	56				
э.	Pukhrayan Distt., Kanpur.		Type Hindi	,,	6 months	56	••			
		(iii)	Shorthand Eng.	"	6 months	10				
		1	Shorthand		6 months	10				

			(PAR]	Г С)			-
_	1		2	3	4	5	6
20.	Mishra Institute of Commerce, 104A/ 246, P. Road, Kanpur.		Type Hindi Type Eng.	High School	6 months 6 months	34 34	
			Shorthand Eng.	,,	6 months	9	••
		(iv)	Type Hindi	"	6 months	9	••
21.	Bajpai Typing College, 104/278, P. Road,		Type Hindi	,,	6 months	10	••
	Kanpur.		Type Eng.	,,	6 months	10	••
			Shorthand Eng.	**	6 months	5	••
		(iv)	" Hindi	,,	6 months	5	••
2 2.	Mishra Commercial College, 104/309,		Type Hindi	,,	<u> </u>	30	••
	P. Road, Kanpur.		Type Eng. Shorthand Eng.	> 	6 months 6 months	30 15	
23.	Srivastava Type Institute, 104/437, P. Road, Kanpur.	(i)	Type Eng.	"	6 months	100	••
24.	Swadesh Commercial College, 133/823,	(i)	Type Hindi		6 months	15	
	M. Block, Kidusinagarh, Kanpur.		Type English	**	6 months	20	••
		(iii)	Shorthand Eng.	,,	6 months	3	
		(iv)	Shorthand Hindi.	33	6 months	2	
25.	Nav Bharat Commercial College, 133/131.	(i)	Type English	,,	6 months	6 0	
	M. Block, Kidwainagar, Kanpur.	(ii)	Type Hindi	**	6 months	20	
		• •	Shorthand Eng.	**	6 months	16	
		(1V)	Shorthand Hindi.	. ,,	6 months	10	••
26.	TIPCO Type Institute, Khalasi		Type Hindi	,,	6 months	6	••
	Line, Kanpur.	(11)	Type English	,,	6 months	6	••
27.	Premier School of Stano typing Flat		Type Hindi	, ,,	6 months	85	••
	No. 1, Naveen Market, Parade, Kanpur.	(11)	Type Eng. Shorthand	• •	6 months 6 months	85 40	• • •
		()	Eng.	,,	o montași		
		(iv)	Shorthand Hindi.	,,	6 months	40	••
28.	New Premier School of Commerce Hata	(1)				-0	
	of Ram Mohan Shivala Road, Kanpur.		Type Eng.	,,	6 months	50 50	••
		(11)	Type Hindi	,,	6 months	50	••
2 9 .	Type Centre, 40/67, Naya Chauk, Kanpur.	(i) (ii)	Type Eng. Type Hindi	>, ,,	6 months 6 months	$\frac{25}{25}$	••
30.	Bindu Type Instt., Harjindernagar, Kanpur.	(i)	Type Eng.	,,	6 months	6	
91.	-	(.)			a .1	-	
31;	Manoj Commercial Instt., 65, Vaji- khera Harjindernagar, Kanpur.		Type Hindi Type Eng.	,,	6 months 6 months	5 7	••
32.	Jai Bharat Type School, Harjindernagar, Kanpur.		Type Hindi Type Eng.	» • » >	6 months 6 months	5 5	••
33.	Arun Commercial Instt., Harjinder- nagar, Kanpur.	(i)	Type Eng.	37	6 months	4	•••
34.	T.C. Institute Typing House, 87/136, Deonagar, Kanpur.		Type Hindi Type Eng.	9 9 79	6 months 6 months	1 4 14	• •
35.	· · · · · · · · · · · · · · · · · · ·	(i)	Type Hindi Type Eng.	3) 5)	6 months 6 months	12 12	••
36.	Narain Type Institute, 89/209, Dalai- purva, Kanpur.	(i)	Type Hindi Type Eng.	# 3 5 5	6 months 6 months	1 6	•••
37.	Public Commercial Institute, St. Xaviour Building, Ashok Nagar, Kanpur.		Type Hindi	2) 7)	6 months	133	••
38.	Gupta Type Institute, 118/574, Kaushal- puri, Kanpur.		Type Hindi Type Eng.	* 7	6 months 6 months	6	••
_	puri, Kanpur.	(ii)	Type Eng.	,,	6 months	17	

Appendix X—Contd.

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		(PART C)				
•	1	2	3	4	5	6
39.	New Commercial Institute, Kaushalpuri,	(i) Type Hindi	High school	6 months	8	
	Kanpur.	(ii) Type Eng.		6 months	20	••
40.	Standard Typing Institute, Kanpur	(i) Type Eng.	**	6 months	20	••
TA	ILORÍNG, EMBROIDERY, KNITTING	& PAINTING				
1.	Nari Kala Kendra, G. No. 5, Kanpur	(i) Tailoring	VIII	1 yr.	15	••
		(ii) Embriodery	,,	1 yr.	15	**
2.	Shanti Mahila Shilp Kala Kendra, 120/	(i) Tailoring	,,	Lit.	20	••
	186, Lajpat Nagar, Kanpur.	(ii) Modelling	,,	Lit.	15 5	· • •
		(iii) Painting	,,	Lit.		••
3.	Jaspat Rai Nari Shilp Kala Kendra, Laj- pat Nagar, Kanpur.	(i) Tailoring (ii) Tailoring	High School Jr. H.S.	2 yrs. 2 yrs.	40 30	
	par magar, manpur,	(iii) Tailoring	Lit.	6 months	50	
		Short Course		2	0.5	
4.	Arjun Mahila Shilp Kala Kendra, Plot No. 115, O Block, Kidwainagar,	(i) Tailoring (ii) Embroidery	VIII "	2 yrs. 2 yrs.	$\frac{25}{25}$	
	in the second states and the	(iii) Hand Embroidery	,,	2 yrs.	25	••
		(iv) Machine	,,	2 yr.	25	••
5	Shulls Tailorian Call and 110/005	Knitting	Lit.	1 yr.	150	
5.	Shukla Tailoring College, 118/625, Kaushal, puri, Kanpur.	Tailoring	1.11.	1 yı.		
6.	R.K. Shukla, Tailoring College, 121/630, Shastri Nagar Kanpur,	Tailoring	"	1 yr.	35	••
7.	Anand Tailoring College, Krishna Nagar, Kanpur.	Tailoring	"	1 yr.	25	••
8.	Omar Vaishya Shilp Kala Kendra, Birha Road, Kanpur.	n Tailo r in g	,,	l yr.	20	
9.	Omar Vaishya Five Art School, Birhana Road, Kanpur.	Music	"	1 yr.	200	
10.	Bhartiya Vidyalay Tailoring Instt., Naya-	· Tailoring	,,	1 yr.	50	••
	ganj, Kanpur.	Tailoring	,,	2 yrs.	50	••
11.	Hind Training College, The Mall, Kan-	Tailoring	Lit.	1 yr.	120	• •
12.	pur. Kanpur Tailoring College, Chatampur,	Tailoring	VIII	l yr.	25	
13.	Dist. Kanpur. Usha Mahila Shilp Kala Kendra, 83/1,	Tailoring	Lit.	6 months	27	
	Juli, Kanpur. Rajesh Shilp Kala Mandir, 111/112, Ashoknagar, Kanpur.	Tailoring	,,	l yr.	50	
15.	Bhartiya Sangeet Kala Mandir, 128, M Block, Kidwainagar, Kanpur.	Music	••	1 yr.	14	•
15.	Bapu Mahila Shilp Kala Kendra, 2/3,	Tailoring	Lit.	1 yr.	20	
	Begam Purwa (Ajitganj), Kanpur.	Embroidery	• •	6 months	7	•
17.	Naveer Training College, 133/834, 'M'	Tailoring (Gents)	VIII	1 yr.	88	•
	Block, Kidwainagar, Kanpur.	Tailoring (Women) Embroidery (Hand)	>> >3	l yr. 6 months	$\frac{26}{16}$	•
10	Mahila Shila Kala Kandan Blash No	Tailoring		l yr.	19	
18,	Mahila Shilp Kala Kendra, Block No. 79, Labour Colony, Bahu Purna, Kanpur.	Embroidery (Hand)	Lit.	6 months	19	•
19.	Nehru Vikas Mandal, 133/763, M Block, Naya Burwa, Kidwainagar, Kanpur.	Tailoring	>>	1 yr.	18	
20.	Adarsh Mahila Shilp Kala Kendra, Adarsh Vikas Mandal, Ajitganj, Kanpu	Tailoring Ir.	,,	1 yr.	25	
21.		(i) Music-Vocal	,,	6 yrs. 6 yrs.	$\frac{25}{3}$	•
	pore Estate, Kanpur.	Sitar Sitar	,, ,,	6 yrs.	5	•
		Tabla	,,	6 yrs.	9 18	• •
		(ii) Dance	,,	6 yrs.	10	•••

Appendix X—Contd.

Appendix	X-Contd.
(PAR	T C)

	1	2	3	4	5	6
2.	Shamshed Ali Kadhai Kendra, Shivala Road, Kanpur.	Embroidery Machine	Lit.	6 months	5	•••
3.	Kadhil Kendra, Kotwali Market, Kanpur.	Embroid e ry Machine	"	6 months	8	
4.	Usha Mahila Shilp Kala Kendra, Har- jender Nagar, Kanpur.	Tailoring Embroidery	,,	6 months 6 months	N.A.	
5.	New Diamond Shilp Kala Kendra, Jagai Purwa, Kanpur.	•	»» »	6 months	40	••
6.	Adarsh Shilp Kala Kendra	Tailoring	,,	6 months	30	• •
7.	Laxmi Silai, Kata and Embroidery School, Waston Road, Kanpur.	Tailoring Embroidery))))	6 months 6 months	8 8	•
8.	Sudan Stri Silai, Katai and Embroidery, Weston Road, Kanpur.	Tailoring Embroidery))))	6 months 6 months	8 8	•
9.	Ramkrishna Katai Kendra, 36/34, Patar Shivala Road, Kanpur.	Embroidery	,,	6 months	4	•
80.		Cutting & Tailoring	"	l yr.	40	• •
1.		, Tailoring Embroidery Knitting	>> >> >>	6 months 6 months	20 6 N.A.	
₿2.	Janta Vikas Mandal Mahila Silai and and Katai Training Centre, Sujatgang, Kanpur,	Tailoring Embroidery	,, ,,	6 months 6 months	15 5	
13.	Narani Tailoring School, 32/326, Munshi Purwa, Kakhana Road, Kanpur.	Tailoring Embroidery	95 53	6 months 6 months	3 0 10	
4.	Rashtriya Nari Kala Kendra, 110/61, R.K. Nagar, Kanpur.	Cutting & Tailoring	,,	6 months	25	
35.	Sarvodaya Shilphala Kendra, 111/78, Ashok Nagar, Kanpur.	Tailoring & Painting	VIII "	l yr. 6 months	25 5	-
36.	Tiwari Tailoring College, 109/61, Prem Nagar, Kanpur.	(i) Tailoring (ii) Embroidery	Lit.	1 yr. 6 months	30 30	•
37.	Mahila Shilp Kala Kendra, 106/61, Premnagar, Kanpur.	Tailoring Embroidery)) 27	1 yr. 6 months	100 80	
38.	Dr. Chhattoo Ram Gidwani Nari Kala Kendra, 106/67, Gavohinagar, Kanpur.	Tailoring	VIII	1 yr.	45	
39.	Amar Mahila Shilp Kala Kendra, 109/ 405, Nehru Nagar, Kanpur.	Tailoring Em b roidery	3 3	l yr. 6 months	2 5 25	
40.	Ram Devi Shilp Kala Niketan, 107/158, Jawaharnagar, Kanpur.	Tailoring Embroidery	Lit.	l yr. 6 months	20 20	•
41.	Govt. Labour Welfare Centre, Jarib Ki Chauki, Kanpur.	Tailoring Embroidery	35 32	lyr. 6 months	30 10	:
42.	· •	Tailoring Embroidery	>>	6 months 6 months	40 20	
43.	Nahiral Music School, Gandhi Chawk, Kanpur.	Music Vocal Instrumental	>> >> >>	3 yrs. 3 yrs.	100 75	
41.	Nari Kala Kendra, Block No. 12, Govind Nagar, Kanpur.	Dance. Tailoring Embroidery	,, ,,	3 yrs. 1 yr. 6 months	$100 \\ 12 \\ 4$	
45.	Shyam Shiksha Kala Kendra, 120/165,	Tailoring	», »,	l yr. 6 months	15 5	
46.	Lajpatnagar, Kanpur. Vishnu, Shilp Kala Kendra, 140, AS	Embroidery Tailoring	" VIII	l yr.	99	
47.	Block, Jahi Colony, Kanpur. M.K. Shilpkala Vidyalay, 95/96, Halsi	Embroidery	Lit.	6 months	30	
48.	Road, Kanpur. Usha Mahila Shilp Kala Kendra, 87/137	' Tailoring	**	6 months	26	

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		Appendix A- (PART (
	1	2	3	4	5	6
49	Mahila Shilp Kala Kendra, Arya Nagar, Karpur.	Tailoring Embroidery Leather work (Pad, Cushion, Purse)	Lit. "	6 months 6 months 6 months	N.A. ,,	
	OTHER PR	OFESSIONAL AN	D CLERICAL			
I	Sanjay Punching Kurswan, Kanpur	Punching	High School	3 months	12	
		CHARTFRED A	CCOUNTANCY			
1	M. Ashraf & Co. (C.A.), 33/130-A, Moolganj, Kanpur.	Studentship	Graduate pref. with Commerce.	3-4 yıs.	4	
2.	Tandan & Co. (C.A.), Lakshmi Building, 16/48, The Mall, Kanpur.	,,	**		18	
3.	Parivh and Jain (C.A.), 59/48, Birwana Road, Kanpur.	,,	,	3-4 yr :.	10	
4.	C.L. Kanodia & Co., 52/53, Birhana Road, Kanpur.	>>	51	3-4 yrs.	2	••
5.	J.N. Sharma & Co., 59/4, Birhana Road, Kanpur	: >	**	3-4 yrs.	19	••
6.	Pandey & Co., 24/24, Karachi Khana, Kanpur.	>9	3 3	3-4 yrs.	2	
7.	B.N. Chaturvedi & Co., 24/67, Birhana Road, Kanpur.	"	,	3-4 yrs.	7	• -
8.	B.A. Kalra & Co., 59/41, Birhana Road, Kanpur.	:1	**	3-4 yrs.	10	• -
9.	S.R. Singh & Co., 58/47, Birhana Road, Kanpur.	**	**	3-4 yrs.	1	
		VEHICLE DRIV	ING			
1.	Krishna Motor Driving College, 128/52 C, Kidwainagar, Kanpur.	Motor Drivir.g		3 months	100	
2.	Hanumant Motor Driving Training School, 132/225, M.Kidwainagar, Kanpur.	(H.M.V.) (M.V.)	••	3 months 2 months	60 60	••
3.	Bombay Motor Driving School, Near	Motor Driving		3 months	60	
	Wivek Talkies, Kanpur.	(i) H.M.V. (ii) M.V.	••	2 months	60 60	•
	I	ENGINEERING A	ND OTHER			
ſ.	Radio Training Centre, Pheelkhana, Kanpur.	Mech. Radio & & Television	VIII	••	10	
2.	Radio Television, Television Institute, 37/19, Mall Road, Kanpur.	,,	H.S.	3 months	12	
3.	Omar Vaishya Technical Institute, Birbana Road, Kanpur.	(i) Mech. Radio (ii) Mech. Trans- sistor.	I.Sc. H.S.	6 months 1 yr.	15 20	••

Appendix X-Gontd.

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Appendix X-Contd.

(PART D)

Existing Training opportunities within the establishments PRIVATE SECTOR

Name of establishment OCC.CODE Entry Educational Duration Intake Remarks qualifications of course capacity code 2 3 4 1 5 6 M/s Annapurna Biscuit Mfg. Co., 84/67, G.T. Road, 1. Clerk, General Hr. Secondary 1 1 year App. Act VIII & I.T.I. Fitter, General year App. Act. App. Act. 1 Electrician Hr. Sec. Sec. Kanpur 1 year ł I.T.I. H.S. Gen., Baker 4 years 1 App. Act. Hr. Secondary The Alheton West & Co. Ltd., Clerk, General 2.l year 5 App. Act. 6 months Anwar Ganj, Kanpur Doffer, Spinning V Fresher 2 App. Act. Weaver Powerloom VII Fresher 6 months 5 App. Act. Stentering V Fresher 6 months 2 App. Act. Machineman Carpenter VIII. I.T.I. 2 years 1 App. Act. VIII. I.T.I. Turner 1 year 1 App. Act. Fitter, General VIII. I.T.I. l year 2 App. Act. Assembler VIII. I.T.I. 1 year 2 App. Act. **Textile Machinery** Hr. Sec. I.T.I. Electrician, General l year 1 App. Act. H.S. I.T.I. Boiler Attendant l year 3 App. Act. Hr. Secondary Hr. Secondary M/s Ajanta Press, Swaroop 3 years 3. Compositor hand 1 App. Act. Machineman hand 3 years Nagar, Kanpur App. Act. 1 Printing Book binder VIII 3 years ł App. Act. 4. Associated Industries, Clerk, General Hr. Secondary 1 1 year App. Act. 39, Fazal Ganj, Kanpur Tool Makers Hr. Secondary, 1 2 years App. Act. I.T.I. Shaper Hr. Sec. I.T.I. 1 year 1 App. Act. Hr. Sec. I.T.I. Mill Wright 2 years 1 App. Act. Sheet Metel Worker Hr. Sec. I.T.I. 5 2 years App. Act. General Clerk, General Fitter General Ailga Rubber Works, 84/8, Hr. Secondary VII. I.T.I. 5. 1 year 1 App. Act. Fazal Ganj, Kanpur l year App. Act. $\frac{1}{3}$ Boiler Attendant Hr. Secondary 1 year App. Act. Akash Rubber Works, 6. Callender Machine Hr. Secoandary 3 years l App. Act. 30, 31, Industrial Estate, Operator (Rubber) Kanpur Additional Chemical Co., Attendant Operator Hr. Secondary 3 years 2 7. App. Act. F. No. 113, Factory Area, Kanpur Associated Wire Products, VIII. I.T.I. Black smith 2 years 8. 1 App. Act. VIII. I.T.I. l year 100 T Factory Area, Kanpur Turner 1 App. Act. Hr. Secondary R.K. Wires Pvt. Ltd., 123/397, Clerk, General 9. 1 year 1 App. Act. Fitter, General Factory Area, Fazal Ganj, VIII. I.T.I. l year 1 App. Act. Kanpur Agrico Industries, 119/433, 10. Moulder VIII. I.T.I. 2 years 1 App. Act. 1 year Darsanpurwa, Kanpur VIII. I.T.I. 2 Turner App. Act. 1 year Fitter, General VIII. I.T.I. 2 App. Act. Sheetmetal VIII. I.T.I. Worker, General 2 years 1 App. Act. Amrat Industries Corporation, 40, Industrial Estate, Kanpur VII. I.T.I. Fitter, General 6 l year 11. App. Act. VIII. I.T.I. VIII. I.**T.**I. Anand Industrial Corporation, Turner 12. 1 year 1 App. Act. Fitter General 119/419, Darsan Purwa, Kanpur l year 1 App. Act. B.I.C. Ltd., Kanpur Woolent Mill, Branch (Lal Imli), Accounts Clerk Hr. Sec. Com. 5 l year App. Act. 13. Hr. Sec. Com. 5 Cashier, General l year App. Act. Civil Lines, Kanpur Clerk, General Hr. Sec. 3 1 year App. Act.

	1	2	3	4	5	6
3	B.I.C. Lt l., Kanpur Woolent	Store Keeper	Hr. Sec. Com.	l year	2	App. Act.
	Mill, Branch (Lal Imli),	Selling Agent	Hr. Sec.	l year	5	App. Act.
	Civil Lines, Kanpur-Contd.	Weaver Powerloom	VII	½ year	8	App. Act.
	•	Carpenter	VIII. I.T.I.	2 year	. 3	App. Act.
		Machinist General	VIII. I.T.I.	l year	1	App. Act.
		Turner	VIII. I.T.I.	l year	2	App. Act.
		Fitter	VIII. I.T.I.	l year	4	App, Act.
		Assembler	VIII. I.T.I.	lyear	4	App, Act.
		Textile Machinery Electrician	H.S. I.T.I.	1 year	1	App. Act.
		General Wireman	VIII, I.T.I.	l year	2	App. Act.
		Stone mason	Fresher	ł year	2	App. Act.
		Turbine Operator Hydal	H.S. I.T.I.	l year	1	App. Act.
		Boiler Attendant	H.S. I.T.I.	l year	2	App. Act.
	Brij Bihari Lal Triloki Nath 123/4 78, Iron Foundry & Engineering Work, Kalpi Road, Kanpur	Moulder	VIII J.T.I.	2 year	3	App. Act.
5	Bhatia Steel Works, 86,	Fitter, General	VIII. I.T.I.	l year	1	App. Act.
	Factory Area, Kanpur	Welder, Gas	VIII. I.T.I.	2 years	1	App. Act.
	· · -	Sheetmetal Workers General	VIII. I.T.I.	2 years	1	App. Act.
5	Bhati Safe Works, 47, Factory Area, Fazal Ganj, Kanpur	Fitter, General Sheetmetal Worker, General	VIII. I.T.I. VIII. <u>I</u> ,T.I.	1 year 2 years	1 1	App. Act. App. Act.
7	B.T. Pal & Sons, H.O. 84/13, Factory Area, Kanpur	Sheetmetal Worker, General	VIII. I.T.I.	2 years	1	App. Act.
3.	Bharat Condit & Steel Works, 123/404, Factory Area, Fazalganj, Kanpur	Fitter, G eneral Welder, Gas	VIII. I.T.I. VIII. I.T.I.	l year 2 years	'2 2	App. Act. App. Act.
€.	Bhartiya Engineering Works, 25, Industrial Estate, Kanpur	Sheetmental Worker,	VIII. I.T.I.	2 years]	App. Act.
)	Bharat Indutrial Corporation, 76/8, Factory Area, Kanpur	Fitter, General	VIII. I.T.I.	l year	1	App. Act.
۱.	Bhatia Restaurant, 96/12, Parade, Kanpur	Cook Institutional Steward	Fresher VII Fresher	4 years 3 years	1 - I	App. Act. App. Act.
2.	The Central Press Pvt. Ltd., 123/443, Factory Area, Kanpur	Compositor Machineman, Hand Printing	H.S. H.S.	3 years 3 years	12	App. Act. App. Act.
3.	Charan Safe Works Pvt. Ltd., 6A, Industrial Estate, Factory	Clerk, General Fitter, General	H. Secondary VIII. I.T.I.	l year l year	1 2	App. Act. App. Act.
	Area, Kanpur	Welder gas Sheetmetal Works,	VIII. I.T.I. VIII. I.T.I.	2 years 2 years	1 7	App. Act App. Act
4	Cossul Foundry Pvt. Ltd., 102, 104, Industrial Estate, Kanpur	General Moulder	VIII. I.T.I.	2 years	` 1	App. Act.
5	Cassul & Co., Pvt. Ltd., Factory Arca, Kanpur	Black smith Turner	VIII VIII, I.T.I.	2 years 1 year	1 1	App. Act App. Act
6	M/s Can Care Auto Carage, Chunniganj, Kanpur	Mechanic Automo- bile	VIII	2 years	1	App. Act
7	Daily Action, Located in Danik Jaggan, Kanpur	Compositor Lino Operator	H. School H.S.	3 years 3 years	1 1	App. Act. App. Act.
8.	Mill Manager, Eligin Mill No. 1, Civil Lines, Kanpur	Textile technologist	Diploma in Engineering	l year	3	App. Act
		Moulder	VIII. I.T.I.	2 years	1	App. Ac
		Mech. maintenance	VII Fresher	6 months	3	App. Ac
		Weaver Powerloom	VII Fresher	6 months	11	App. Act

Appendix X—Contd. (PART D)

		(PAR'	ГD)			
•	1	2 -	3	4	5	, 6
	Mill Munager, Eligin Mill Io. 1, Civil Lines, Kanpur-Contd.	Drawing and weaving operative	VII Fresher	6 months	5	App. Act.
	, ,	Carpenter	VIII. I.T.I.	2 years	1	App. Act.
		Mechanist General	VIII. I.T.I.	l year	1	App. Act.
		Turner	VIII. I.T.I.	1 year	2	App. Act.
		Fitter, General	VIII. I.T.I.	l year	4	App. Act.
		Electrician, General	Hr. Sec. I.T.I.	l year	2	App. Act.
		Boiler Attendant	Hr. Sec. I.T.I.	l year	2	App. Act.
9.	M/s Eligin Mill No. 2, Cooperganj, Kanpur	Textile Technologist Accounts Clerk	Dip. in Engg. Hr. Sec. Com. fresher	l year l year	3 1	App. Act. App. Act.
		Cashier General	Hr. Sec. Com. fresher	l year	1	App. Act.
		Clerk, General	Hr. Secondary	1 year	9	App. Act.
		Textile Jobber	VII Fresher	6 months	3	App. Act.
		Inter tenter	V Fresher	6 months	5	App. Act.
		Piecers	V Fresher	6 months	6	App. Act.
		Doffer, Spinning	V Fresher	6 months		App, Act.
		Weaver, Powerloom	VII Fresher	6 months	7	App. Act.
		Drawing and weaving operative	VII Fresher	6 months	5	App. Act.
		Carpenter	VIII. I.T.I.	2 years	2	App. Act.
		Blacksmith	VIII. I.T.I.	2 years	1	App. Act.
		Mechanist, General	VIII. I.T.I.	1 year	2	App. Act.
		Turner	VIII. I.T.I.	1 year	2	App. Act.
		Fitter, General	VIII. I.T.I.	l year	7	App. Act.
		Electrician, General	Hr. Sec. I.T.I.	l year	2	App. Act.
		Wireman	VIII. I.T.I.	l year	1	App. Act.
		Sheetmetal Workers, General	VIII. I.T.I.	2 years	1	App. Act.
		Boiler Attendant	Hr. Sec. I.T.I.	l year	2	App. Act.
0 .	E.M.C. Work Ltd., 123/485,	Blacksmith	VII. I.T.I.	2 years	2	App. Act.
	Factory Area, Kalpi Road,	Mechanist	VII. I.T.I.	l year	1	App. Act.
	Kanpur	Turner Fitter, General	VII. I.T.I. VII. I.T.I.	l year l year	4 3	App. Act. App. Act.
31.	M/s Ganesh Flour Mills Pvt.	Fitter, General	VII. I.T.I.	l year	2	App. Act.
	Ltd., Box 32, Kalpi Road,	Electrician, General	Hr. Sec. I.T.I.	l year	2	App. Act.
	Kanpur	Welder Sheetmetal Works, General	VIII. I.T.I. VIII. I.T.I.	2 years 2 years	2	App. Act. App. Act.
		Mason		3 years	1	App. Act.
32.	Gopal Printing Press,	Boiler Attendant	VIII. I.T.I.	2 years	2	App. Act.
	49/4, Parad, Kanpur	Compositor, hand	Hr. Sec.	3 years	1	App. Act. App. Act.
		Machineman, hand printing	Hr. Secondary	3 years	1	App. Act.
33.	Gyan Vaishnu Hotel, 118/1, Kaushlpuri, Kanpur	Cook, Institutional Steward Hotel	VII Fresher VII Fresher	4 years 3 years	1 1	App. Act. App. Act.
34.	Harnarayan Ja g anath Iron Foundry, 124/479, Fazal Ganj, Kanpur	Moulder	VII. I.T.I.	2 years	1	App. Act.
35.	Hindustan Engineering Works, 51, Factory Area, Kanpur	Blacksmith	VII. I.T.I.	2 years	• 1	App. Act.
36.	M/s Hindustan Automobiles, 97, the Mall, Kanpur	Mechanic Automobil	e VIII	2 years	1	App. Act.
37.	Hotel De Dashmiri, Civil Lines, Kanpur	Steward, Hotel	VII Fresher	3 years	1	App. Act.
38.	Himalaya Hotel, Maisten Road, Kanpur	Cook Institutional Steward, Hotel	VII Fresher VII Fresher	4 years 3 years	- 1 - 1	App. Act. App. Act.

Appendix X—Conid. (PART D)

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	1	2	3		4	5 6
39.	Indian Explosive Ltd.,	Draftsman, Mecha-	Hr. Sec. I.T.I.	l year	1	App. Act.
	Panki, Kanpur	nical Mechanist, General	VIII. I.T.I.	l year	l	Ann Act
		Turner	VIII. I.T.I.	l year	1	App. Act.
		Miller	VIII. I.T.I.	l year	1	App. Act.
		Electrician, General	Hr. Sce. I.T.I.		4	App. Act.
			VIII. I.T.I.	l year		App. Act.
		Welder, Gas Boiler Attendant	VIII. I.T.I.	2 years		App. Act.
		Maintenance	VIII. I.T.I. VIII. I.T.I.	2 years 2 years	2 19	App. Act.
		(Chemical plant)		·		Employers Ow Programme
		Mechanic	VIII. I.T.I.	years	10	Employers Ow Programme
0.	Indian Rolling Mills, 79, Fazal	Turner	VIII. I.T.I.	l year	1	App. Act.
	Ganj, Kanpur	Fitter, General	VIII. I.T.I.	l year	1	App. Act.
		Eelctrician, General	Hr. Sec. I.T.I.	l year	1	App. Act.
۱.	Indian Engineering Const. Co., 64, Industrial Estate, Kanpur	Welder, Gas	VIII. I.T.I.	2 years	1	App. Act.
9.	India forging Pvt. Ltd.,	Blacksmith	VIII. I.T.I.	2 years	2	App. Act.
	77-Fazalganj, Kanpur	Tool Maker	Hr. Secondary	l year	1	App. Act.
3.	Indian Supplies Engg. Works,	Moulder	VIII. I.T.I.	2 years	I	App. Act.
	84/22-Fazalgenj, Kanpur	Turner	VIII. I.T.I.	l year	2	App. Act.
		Fitter, General	VIII. I <i>.</i> T.I.	l year	1	App. Act.
		Mill wright	VIII. I.T.I.	l year	1	App. Act.
		Electrician, General	Hr. Sec. I.T.I.	l year	1	App. Act.
4.	Grey Foundry & Engg. Works, 84/108, G.T. Road, Kanpur	Fitter, General	VIII. I.T.I.	l year	1	App. Act.
5.	M/s Highland Motors, Arya Nagar, Kanpur	Mechanic, automo- bile	VIII	2 years	2	App. Act.
6.	J.K. Jute Mill,	Clerk, General	Hr. Secondary	l year	4	App. Act.
•••	Kalpi Road, Kanpur	Weaver Powerloom	VII Fresher	6 months	5	App. Act.
	-	Carpenter	VIII. I.T.I.	2 years	2	App. Act.
		Turner	VIII, I.T.I.	I year	1	App. Act.
		Fitter, General	VIII. I.T.I.	l year	7	App. Act.
		Mechanic, Textile Machinery	VIII, I.T.I.	6 months	2	App. Act.
		Boiler Attendant	VIII. I.T.I.	3 years	2	App. Act.
7.	J.K. Iron and Steel Co. Ltd.,	Moulder	VII. I.T.I.	2 years	3	App. Act.
	Kalpi Road, Kanpur	Carpenter	VIII. I.T.I.	2 years	1	App. Act.
		Black smith	VIII. I.T.I.	2 years	2	App. Act.
		Pattern Maker	VIII. I.T.I.	1	1	App Ast
		Metal, Foundry		l year	2	App. Act.
		Turner Shaper	VIII. I.T.I. Hr. Secondary I.T.I.	l year 1 year	1	App. Act. App. Act.
		Fitter Coneral	VIII. I.T.I.	1 wear	5	App. Act
		Fitter, General	Hr. Sec. I.T.I.	l year	1	App. Act.
		Electrician, General Welder, Gas	VIII. I.T.I.	l year 2 years	1	App. Act. App. Act.
		•		•	2	
8.	Job Press Laxmi Building, The Mall, Kanpur	Compositor, hand Machineman, hand Printing	Hr. Secondary Hr. Secondary	3 years 3 years	23	App. Act. App. Act.
	•	Book Binder	VIII -	3 yea rs	1	App. Act.
9.	Jiwan Lall & Co.,	Moulder	VIII. I.T.I.	2 years	1	App. Act.
	78, Factory Area, Kanpur	Turner Fitter, Gene r al	VIII. I.T.I. VIII. I.T.I.	l year l year	1	App. Act. App. Act.
60.	M/s J. Gupta Industries,	Moulder Turner	VIII. I.T.I. VIII. I.T.I.	2 years 1 year	1	App. Act. App. Act.
	Heera Ganj, Kanpur	Fitter, General	VIII. I.T.I.	l year	1	App. Act.
		ritter, General	v III. I. I.I.	i yeai	1	App. Act.

Appendix X—Contd. (PART D)

		(PAR	L D)			
		2	3	4	5	6
51	J.K. Electronics Ltd., G.T. Road, Kanpur	Technician, Electri- cian	B,E. (Elec.)	l year	2	App. Act.
		Technician Mech. Engg.	Hr. Sec. Dip. (Mech.)	l year	1	App. Act.
		Technician Electrical	Dip. Elec.	l year	1	App. Act.
		Technician Electrical Engineering	Hr. Sec. Dip. (Elec.)	l year	1	App. Act.
		Electrical Technician	Hr. Sec. Dip. (Elec.)	l year	I	App. Act.
52,	M/s Japsor Electricals Coop.	Turner	VIII. I.T.I.	l year	1	App. Act.
	Ludustrial Estate, Kanpur	Fitter, General Electrician, General	VIII, I.T.I. VIII, I.T.I.	l year 1 year	1	App. Act. App. Act.
53.	J.K. Cotton Spinning &	Fitter	VIII. I.T.I.	l year	- 1	App. Act.
	Weaving Mills	Electrician	Hr. Sec. I.T.I.	l year	1	App. Act.
		Weaver	VII Fresher	2 years	6	App. Act.
		Turner	VIII. I.T.I.	2 years	2	App. Act.
		Wireman	VIII. I.T.I.	l year	1	App. Act.
		Instrument Mech.	VIII. I.T.I.	2 years	·1	App. Act.
		Carpenter	VIII. I.T.I.	l year	1	App. Act.
		Boiler Attendant	VIII. I.T.I.	l year	1	App. Act.
		Clerks	Hr. Sec.	2 years	4	App. Act.
		Store Assistant	Hr. Sec.	2 years	1	App. Act.
		Doffer-cum-Piecers	VIII	2 years	3	App. Act.
		Mech. Maintenance	VIII	2 years	1	App. Act.
		Electrical Engg.	VIII	2 years	2	App. Act.
		Mech. Engineer	B.E.	2 years	3	App. Act.
54.	J.K. Satoh, Agricultural Machinery Ltd., Chakarpur,	Mech. Engineer, General	B.Eng. Mech.	l year	1	Govt. of India
	Kanpur	Technician Mech. Engg.	Diploma	l y c ar	3	Govt. of India
		Turner	VIII. I.T.I.	2 years	10	App. Act.
55.	J.K. Manufacturers, Kalpi Bood, Kannur	Fitter	VIII. I.T.I.		4	App. Act.
	Kalpi Road, Kanpur	Turner	VIII. I.T.I.		1	App. Act.
		Carpenter Mechanist (Tex. Mech.)	VIII. I.T.I. VIII. I.T.I.		I	App. Act. App. Act.
		Boiler Attendant	VIII. I.T.I.		1	App. Act.
		Weaver	VIII I.T.I.		3	App. Act.
		Engg. (Mech.)	-		4	App. Act.
56.	Kanpur Textile, Cooper Ganj,	Cashier, General	H.S. Com.	l year	1	App. Act.
	Kanpur	Clerk, General	H.Sc.	1 year	7	App. Act.
		Intertenter	VII Fresher	6 months	2	App. Act.
		Doffer spinning	VII Fresher	6 months	2	App. Act.
		Weaver Powerloom	VII Fresher	6 months	5	App. Act.
		Carpenter	VII. I.T.I.	2 months	1	App. Act.
		Turner	VII. I.T.I.	2 months	2	App. Act.
		Grinder, General	VII. I.T.I.	1 month	1	App. Act.
		Fitter, General	VIII. I.T.I.	1 month	3	App. Act.
		Assembler, Textile	VIII. I.T.I.	l month	1	App. Act.
		Machinery Electrician, General		1 month	• 1	App. Act.
		Wireman	VIII. I.T.I.	1 month	1	App. Act.
.	••••		H.S. I.T.I.	l month	2	App. Act.
57.	Ktipco Printers Co. Carton Makers, 97/18, Kais Thana Road, Talegla Mahal,	Compositor, hand Machineman, hand printing	H.S. H.S.	3 months 3 months	1	App. Act. App. Act.
58.	Kanpur Krishna safe Works, 15, Industrial Estate, Kanpur	Sheet Dudal worker, General	VIII, I .T.I.	2 months	4	App. Act.

Appendix X—Gontd. (PART D)

Appendix X—Contd. (PART D)

	1	2	3	4	5	6
59.	Kanpur Metal Products, 93B, Factory Area, Kanpur	Turner	VIII. I.T.I.	l month	1	App. Act.
60.	Kailach Motor Service Station, G.T. Road, Kanpur	Mechanic automobile	VIII. I.T.I.	2 months	3	App. Act.
61.	Kanpur Auto Garage, Cheemni Ganj, Kanpur	Mechanic automobile	VIII. I.T.I.	2 months	2	App. Act.
62.	Khaygani Hotel Chunuieganj, Kanpur	Steward Hotel	VII Fresher	3 months	1	App. Act.
63.	Kanpur Restaurant, 59/44, Birhana Road, Kanpur	Cook Institutional Steward Hotel	VII Fresher	4 months	1	App. Act.
64.	Lohia Engg. Works, 73A,	Engg. (Electric)				
• • •			1	1 month	1	App. Act.
	Factory Area, Kanpur	Craftsmen Mechanica Moulder	VIII. I.T.I.	2 months	2	App. Act.
					3	
		Turner	VIII. I.T.I.	1 month		App. Act.
		Fitter, General	VIII. I. T. I.	1 month	2	App. Act.
65.	Laxmi Rattan Mills, Kalpi Road, Kanpur	Electional Engineer Mech.	VIII. I.T.I.	1 month	2	Govt. of India
66.	Moti Lal Padam Pat Sugar	Fitter, General	VIII. I.T.I.	l year	1	App. Act.
00.	Mills Co. Pvt. Ltd.	Electrician, General	H.Sc. I.T.I.	l year	1	App. Act.
		Boiler Attendant	H. School, I.T.I.		1	App. Act.
67	M.D. Summer Mills On Data Ind	N	VIII I TI	1	1	App Act
67.	M.P. Sugar Mills Co. Pvt. Ltd. Steel Foundry, Branch	Mechanist Turner	VIII. I.T.I. VIII. I.T.I.	l year l year	1	App. Act. App. Act.
	Guthaiya, Kanpur	Fitter, General	VIII. I.T.I.	1 year	ì	App. Act.
	ounaiya, ixanpu	Welder, Gas	VIII. I.T.I.	2 years	i	App. Act.
68.	Moeran Metal Industries, 82/258A Juhi, Kanpur	Sheet Metal worker	VIII, I.T.I.	2 years	2	App. Act.
6 9 .	Modern Engineering Monto	Black Smith	VIII. I.T.I.	l year	1	App. Act.
05.	Modern Engineering Works, 123/17 Pratap Ganj, Kanpur	Turner	VIII. I.T.I.	l year	1	App. Act.
70.	Mukund Motors, 63/2, The Mall, Kanpur	Machanic, Automobile	VIII, I.T.I.	2 years	2	App. Act.
71.	Meghdoot Hotel, Meston Road,	Clerk, General	H.Sc.	l year	1	App. Act.
	Kanpur	Cook, General	Fresher	4 years	1	App. Act.
	•	Steward Hotel	VII	3 years	2	App. Act.
70	M/n New Grant Day Jack 1	X. 11.	VIII. I.T.I.	9	2	App. Act.
72.	M/s New Gupta Foundary and Engg. Works, Coop. Industrial Estate, Kanpur	Moulder Fitter, General	VIII. I.T.I. VIII. I.T.I.	2 year 1 year	2	App. Act.
73.	Nirkari Engg. Work , 84/76, G.T. Road, Kanpur	Turner	VIII. I.T.I.	l year	I	App. Act.
74	National Tubing Co., 123/444,	Moulder	VIII. I.T.I.	2 years	1	App. Act.
/ .	Factory Area, Fazalganj, Kanpur	Mechanist	VIII. I.T.I.	l year	1	App. Act.
75.	National Metallurging Corpo-	Black Smith	VIII. I.T.I.	l year	1	App. Act.
- •	ration, 19, Industrial Estate,	Mechanist	VIII. I.T.I.	1 year	1	App. Act.
	Kanpur	Turner	VIII. I.T.I.	l year	. 2	App. Act.
		Shaper	VIII. I.T.I.	l year	1	App. Act.
		Fitter, General	VIII. I.T.I.	l year	2	App. Act.
76.	M/s New Hotel Valerous, The Mall, Kanpur	Steward Hotel	VII Fresher	3 years	1	App. Act.
77.	Om Metal Works, 123/409,	Moulder	VII. I.T.I.	2 years	1	App. Act.
	Factory Area, Fazalganj,	Turner	VII. I.T.I.	2 years	ī	App. Act.
	Kanpur	Sheet metal workers,	VII. I.T.I.	2 years	1	App. Act.
	-	General Moulder	VII . I .T.I.	2 years	1	App. Act.
78.	M/s Raj Foundary & Engg. Works, 87/362, G.T. Road, Kanpur					
79 <i>.</i>	Moto Pumps & Hydraulics Coor. Industrial Estate,	Turn e r Fitter, General	VIII. I.T.I. VIII. I.T.I.	l year l year	1 1	App. Act. App. Act.

		(PAI	RT D)			
	1	2	3	4	5	6
80.	Rekhi Engg. Corp., 32/33,	Die Maker	VIII. I.T.I.	l year	1	App. Act.
	Industrial Estate, Kanpur	Mechanist Turner	VIII. I.T.I.	l year	1	App. Act.
		Turner Fitter, General	VIII. I.T.I.	l year l year	1 1	App. Act. App. Act.
1.	Swadeshi Cotton Mills, Co., Ltd., Juhi, Kanpur	Accounts Clerk Cashier, General	H.S. Com. H.S. Com.	l year l year	3 1	App. Act. App. Act.
	() () () () () () () () () () () () () (Clerk, General	H.Se.	l year	6	App. Act.
		Store Keeper	H.Se. Com.	l year	8	App. Act.
		Selling Agent	H.Se. Com.		0 4	
		Inder tenter	V. fresher	l year 6 months	4	App. Act.
		Piecer Mulepiecer	V. fresher	6 months	4 5	App. Act.
	1-	Weaver Powerloom				App. Act.
			VIII Fresher	2	15	App. Act.
		Turner	VIII. I.T.I.	l year	3	App. Act.
		Fitter, General	VIII. I.T.I.	l year	4	App. Act.
		Assembler, Textile	VIII. I.T.I.	l year	5	App. Act.
		Machinery Electri- cian, General	H.Se. I.T.I.	l year	4	App. Act.
		Wireman	H.Se. I.T.I.	l year	1	App. Act.
		Welder	H.Se. I.T.I.	l year	1	App. Act.
		Sheet metal worker, General	VIII. I.T.I.	2 year	1	App. Act.
		Stone mason	Fresher	3 year	1	App. Act.
		Boiller Attendant	H.S. I.T.I.	1 year	- 1	App. Act.
	Singh Engineening Marks Co			•		
•	Singh Engineering Works Co. Ltd., G.T. Road, Factory	Mechanist General Fitter, General	VIII. I.T.I. VIII. I.T.I.	l year l year	1 1	App. Act. App. Act.
	Area, Kanpur	Electrician, General	H.S. I.T.I.	l year	i	App. Act.
3 .	Sabarwal Metal Industries, 6, Industrial Estate, Kalpi Road, Kanpnr	Welder, Gas	VIII. I.T.I.	2 year	1	App. Act.
4.		Die maker		l year	1	App. Act.
•••	4, Industrial Estate, Kanpur	Mechanist	VIII. I.T.I.	2 year	1	App. Act.
5.	Singhania Industry, Factory	Moulder	VIII. I.T.I.	2 year	1	App. Act.
	Area, Kanpur	Turner	VIII. L.T.I.	l year	1	App. Act.
		Shaper	VIII. I.T.I.	l year	1	App. Act.
		Fitter, General	VIII. I.T.I.	l year	3	App. Act.
5.	39, Fazalganj, Kanpur	Turner	VIII. I.T.I.	l year	2	App. Act.
7.	M/s Standard Carriage, 40/74, Pandu Nagar, Kanpur	Mechanic automo- bile	VIII	2 year	1	App. Act,
8.	Station view Hotel & Restaurent Central Railway Station, Kanpur	Steward Hotel	VII fresher	3 year	I	App. Act.
		Compositer, hand	H.S.	3 year 3 year	1	App. Act. App. Act.
9.	M/s The Star Press, Chunniganj, Kanpur	Machineman, hand	H.S.	J year	1	
9.		Machineman, hand Printing				App. Act.
	Kanpur	Machineman, hand Printing Book Binder	VIII	3 year	1	App. Act.
		Machineman, hand Printing			1 1 2	App. Act. App. Act.
	Kanpur The Singh Engineering Works	Machineman, hand Printing Book Binder Clerk, General Moulder Turner	VIII H.Se. VIII. I.T.I. VIII. I.T.I.	3 year 1 year 2 year 1 year	1 1 2 1	App. Act. App. Act. App. Act.
	Kanpur The Singh Engineering Works Pvt. Ltd., Factory Area,	Machineman, hand Printing Book Binder Clerk, General Moulder Turner Shaper	VIII H.Se. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I.	3 year 1 year 2 year 1 year 1 year	1 1 2 1 1	App. Act. App. Act. App. Act. App. Act.
	Kanpur The Singh Engineering Works Pvt. Ltd., Factory Area,	Machineman, hand Printing Book Binder Clerk, General Moulder Turner	VIII H.Se. VIII. I.T.I. VIII. I.T.I.	3 year 1 year 2 year 1 year	1 1 2 1	App. Act. App. Act. App. Act.
	Kanpur The Singh Engineering Works Pvt. Ltd., Factory Area,	Machineman, hand Printing Book Binder Clerk, General Moulder Turner Shaper Fitter, General	VIII H.Se. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I.	3 year 1 year 2 year 1 year 1 year 1 year 1 year	1 1 2 1 1 2	App. Act. App. Act. App. Act. App. Act. App. Act.
0.	Kanpur The Singh Engineering Works Pvt. Ltd., Factory Area,	Machineman, hand Printing Book Binder Clerk, General Moulder Turner Shaper Fitter, General Electrician, General	VIII H.Se. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I. H.Se. I.T.I.	3 year 1 year 2 year 1 year 1 year 1 year 1 year 1 year	1 2 1 1 2- 2	App. Act. App. Act. App. Act. App. Act. App. Act. App. Act. App. Act.
0.	Kanpur The Singh Engineering Works Pvt. Ltd., Factory Area, Fazalganj, Kanpur Tirlok Nath & Sons, 123/4,	Machineman, hand Printing Book Binder Clerk, General Moulder Turner Shaper Fitter, General Electrician, General Welder, Gas	VIII H.Se. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I. H.Se. I.T.I. VIII. I.T.I.	3 year 1 year 2 year 1 year 1 year 1 year 1 year 2 year 2 year	1 2 1 2 2 2 1	App. Act. App. Act. App. Act. App. Act. App. Act. App. Act. App. Act. App. Act.
0.	Kanpur The Singh Engineering Works Pvt. Ltd., Factory Area, Fazalganj, Kanpur Tirlok Nath & Sons, 123/4, 78-A, Kalpi Road, Kanpur The Glass & Miniature bulb Industries, Fazalganj,	Machineman, hand Printing Book Binder Clerk, General Moulder Turner Shaper Fitter, General Electrician, General Welder, Gas Moulder Black Smith Shaper	VIII H.Se. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I. H.Se. I.T.I. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I.	3 year 1 year 2 year 1 year 1 year 1 year 1 year 2 year 2 year 2 year 1 year	1 1 2 1 1 2 2 1 1 1 2	App. Act. App. Act.
9. 0. 1. 2.	Kanpur The Singh Engineering Works Pvt. Ltd., Factory Area, Fazalganj, Kanpur Tirlok Nath & Sons, 123/4, 78-A, Kalpi Road, Kanpur The Glass & Miniature bulb	Machineman, hand Printing Book Binder Clerk, General Moulder Turner Shaper Fitter, General Electrician, General Welder, Gas Moulder Black Smith	VIII H.Se. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I. H.Se. I.T.I. VIII. I.T.I. VIII. I.T.I. VIII. I.T.I.	3 year 1 year 2 year 1 year 1 year 1 year 1 year 2 year 2 year 2 year	1 1 2 1 2 2 2 1 1 1	App. Act. App. Act. App. Act. App. Act. App. Act. App. Act. App. Act. App. Act. App. Act.

Appendix X Contd. (PART D)

25-1 DGE&T/ND/77

Appendix X—Concld. (PART D)

		(,	PART D)			
	1	2	3	4	5	6
3.	The India Thermal Corporatio	n Clerk, General	H.Sc.	l year	1	App. Act.
	Ltd., 84/22, Factory Area,	Turner	VIII. I.T.I.	l year	1 3	App. Act.
	Kanpur	Fitter, General Welder, Gas	VIII. I.T.I. VIII. I.T.I.	1 year 2 yea r	5 1	App. Act. App. Act.
ŀ.	The Janta Foundary & Engineering Works, 44, Industrial Estate, Kanpur	Mould er Turner	VIII. I.T.I. VIII. I.T.I.	2 year 1 year	1 1	App. Act. App. Act.
5.	The Gas and Metal Operations	Black Smith	VIII. I.T.I.	2 Year	1	App. Act.
	123/4, Fazalganj, Factory	Shaper	,,	1 Year	2	App. Act.
	Area, Kanpur	Turner	**	l year	1	App. Act.
		Grinder, General		l year	1	App. Act.
		Welder, Gas		2 year	2	App. Act.
		Fitter, General		l y c ar	2	App. Act.
5.	Truck Part of India Pvt. Ltd. 4. Industria! Estate, Near	_			,	Arr Act
	C.T.I. Kanpur.	Turner	**	l year	1	App. Act.
7	The Malveeya Engineering	Moulder	VIII. I.T.I.	2 year	2	App. Act.
	Works, 84/5 Factory Area,	Blacksmith	,,	2 year	1	App. Act.
	Kanpur	Turner Eitten Conoral	,,	l year	1 3	App. Act. App. Act.
		Fitter, General	• •	l year	5	hpp. net.
3.	The Glass & Miniture Bulb Industry, 85/22, Factory Area, Kanpur	Electrician, General	H.Sc. I.T.I.	l year	1	App. Act.
•	U.P. Allied Industries 5A Industrial Estate, Kanpur	Moulder	Hr. Sec. I.T.I.	2 year	2	App. Act.
0.	M Viswa Engineering Works Lax Mipurwa, Kanpur	Moulder	Hr. Sec. I.T.I.	2 year	2	App. Act.
	Kissal Electrical Pvt. Ltd. 31-B, Viveka Nandnagar, Kanpur	Electrician General	Hr. Sec. I.T.I.	l year	l	App. Act.
2.	United Auto Service Arya Nagar, Kanpur	Mechanic Automobi	ile VIII. I.T.I.	2 year	1	App. Act.
03.	Winklers & Co., 46, Industrial	Die Maker	VIII. I.T.I.	l year	1	App. Act.
	Estate Factory Area. Kanpur	Fitter General	VIII. I.T.I.	l year	1	App. Act.
4.	The Muir Mills Ltd. Kanpur	Mech. Eng. General Turner	B.E. (Mech) VIII I.T.I.	l year l year	2 1	Govt. of India App. Act. 196
		Fitter, General		l year	2	App. Act. 193
		Electrician, General	"H Sec. ITL	l year	1	App. Act. 196
		Wire man	VIII. I.T.I.	l year	1	App. Act. 196
5.	New Victoria Mills Ltd. Kanpur	Clerk general Mech.	H.S. V	l ycar 6 months	8 9	App. Act 196 App. Act 196
	*	Machinist	v	,,	4	
		Doffer	v	6 months	6	App. Act. 196
		Turner	VIII. I.T.I.	l year	2	App. Act 1961
	·	Fitter, general	>>	l year	2	App. Act. 196
		Mech. textile	,,	l year	12	App. Act. 196
		machinery Wireman	,, VIII. I.T.I.	l year	2	App. Act. 196
		Electrical Switch		-		
		•	H.S. I.T.I.	1 year	1	App. Act. 1961
		Boiler attendant	H.S. I.T.I.	l year	1	App.Act. 1961

Appendix—XI

Prescribed minimum Educational qualification /experience Industry Trade Level Technical Experience Educational Job specialization 3 5 6 7 2 4 Fitter High-Skilled High School ITI/App. 3-5 Years Making parts as per drawing, taking Sugar measurements checking and adjusting of gauges and instruments and pipe fitting. 2-3 " Pipe fitting and making parts as per Do. Skilled Do. Do. drawing and general fitting jobs. Nil Do. Semi-Skilled Do. Do. Rough fitting jobs and helping fitters. Electrician Skilled Do. Do. 2-3 years Wiring of 3 Phase & Single Phase motors starters, installation of Panels, maintenance of electrical equipment and installations. Turning plane, taper, step and other intricate machine parts. Skilled Do. Do. Do. Turner Skilled Do. Welding of C.I. M.S. & Stainless steel Welder Do. Do. parts and brazing not ferrous machine parts & repair jobs. Black-Smith Skilled Do. Do Do. Forging, bendng, & hardening of parts able to work as per drawing. Carpenter Skilled Do. Do. Do. Repair and maintenance work. Running of centrifugal pumps and at-VIII Class Pump Driver/ Skilled Do. Do. Attendant tending minor faults and maintenance. Running of centrifugal pumps and Nil Semi-Skilled Do. Do. Do. routine maintenance. Motor Helper Semi-Skilled Do. Do. Nil Routine maintenance of motors fitted with different machine. Checking of connections & attending minor faults. Oil Man Semi-Skilled Do. Nil Nil Oiling various machines daily as per instructions and clean the machines. Nil Cleaning and routine maintenance of Power House Semi-Skilled Do. ITI/App. Diesel generating sets, filling of oils and helping the drivers, etc. in running P.H. Helper Maintenance of log sheet and operation Boiler Atten-H. Skilled High School ITI/App. 3-5 Years. and routine maintenance of oil fired dent boiler. Switch Board Semi-Skilled Do. Do. Ñil Maintain log sheet, adjust voltage Attendent. current etc. operate various controls. Fitting and repair of machines. Main-teanance work Assisting Mistries. Hvdrogenated Oi's (Vanaspa**t**i) VIII Class I.T.I. Fitter Skilled 2 Years Connection of 3 phase & single phase motors, starters repairing of motor starters. Erection of electrical motors panels etc. Fault location & rectifi-Do. Electrician Skilled High School ITI/App. panels etc. Fault location & recation in Electrical equipments. Welding of machine parts of O.I., M.S. Brass and brozo with gas & electrical process and brazing and fabrication Welder Skilled VIII Class Do. Do. work. 2-3 Years Attending boiler, keeping log sheet Skilled High School Apprenticeship Boiler operation and maintenance of Lan-Attendent Certificate kashire boiler.

Job Specifications for skilled trades in various industries

1	2	3	4	5	6	7
Cotton Spinning & Weaving in Mills	Winder/ Reeler.	Skilled	V Class or less.	Nil	2-3 Years	Operation and control of various winding & reeling machines of cotton yarn. Starting & stopping of winding & reeling machines of hand and power driven. Able to operate Automatic Machines.
	Do.	Semi Skilled	Do.	Nil	6 Months	Operation & control of particular wind ing & reeling machines of hand and power driven.
	Doffer	Skilled	Do.	App/Ship prefered	2-3 Years	Replacing bobbins in creels & joining tail and leading ends. Threads yarns through guides-Manage 2.
	Do.	Semi -Skilled	Do.	Nil	6 Months	Replacing empty bobbins in creels and joining tail and leading ends. Thready yarns through guides-cleans machines
	Tenter	Skilled	Do.	App/Ship	2-3 Years	Fixing and replacing of bobbins and joining slivers through guides and con trolling machines.
	Do.	Semi skilled	Do.	Nil	6 Months	Fixing and replacing of bobbins and joining slivers.
	Sizer	Skilled	V Class or	Nil	2-3 Years	Operate sizing machines and controlling of machines as per designs.
	Do.	S. Skilled	Do.	Nil	6 Months	Operate sizing machines and controlling of machines as per designs.
	Warper	Skilled	Do.	Nil	2-3 Years	Operating warping machines and attending minor faults. Starting and Stopping of warping machines. Arran ging of bobbins in creels.
	Do.	S. Skillea	Do.	Nil	6 Months	Operate warping machines. Starting and stopping of machines. Arranging bobbins in crecls.
	Weaver	Skilled	VII Class or less	Nil	2 -3 years	Preparing of looms, setting and adjusting of looms, weaving of cloth as per de sign. Attending minor faults in the machines.
	Dor	Semi Skilled	Do.	Nil	6 Months	Preparing of looms. Setting and adjust ing of looms. Weaving of cloth Cleaning of machines.
	Fitter	Skilled	VIII Class	ITI/App.	2-3 Years	Fitting and repair of machines. Main tenance work and assisting mistries.
	Do.	S. Skilled	Do.	Do.	Nil	General fitting works & maintenance of machines. Making simple parts.
	Electrician	Skilled	High School	Do.	2-3 Years	Maintenance of electrical motors, start ers etc. Connection of motors starters and erection of motors, panel etc.
	Do.	Semi. Skilled	d Do.	Do.	Nil	Wiring and connection of motors, star ters, maintenance of electrical equip ments attending fuse off calls.
	Wireman	Skilled	· VIII	Do.	2-3 years	Wiring of Machines-attending faults i wiring, temporary connection etc.
	Do	S. Skilled	Do.	Do.	Nil	Wiring of Machines-Repariing of wiring faults-temporary wiring. Test ting of wiring.
	Machinist	Skilled	Do.	Do.	2-3 Years	Make parts as per drawing in Shaper Slotter, Milling Machine.
	Turner	Skilled	Do.	Do.	Do,	Preparing machine parts as per draw ing and samples. Able to work upt an accuracy 0.025 mm. Operat different type of lathes.

Appendix XI—Contd.

1	2	3	4	5	6	7
	Turner	S. Skilled	VIII Class	ITI/App.		As above but upto an accuracy of \pm
tton jnning& aving Mills	Painter	Skilled	Do.	Do.	2-3 Years	0.05 mm. Painting of Metallic and wooden items by handspray painting Mixing of paints as per requirements.
	Welder	Skilled	Do.	Do.	Do.	Welding of C.T., M.I. and non-ferrous metal parts and brazing.
	Do.	S. Skilled	Do.	Do.	Nil	Welding of machines parts with arc and gas welding. Welding of C.I., M.S. and non-ferrous metal parts.
	Black-Smith	S. Skilled	Do.	Do.	Nil	Forging, bending, jumping work, and making spares as per drawing or samples.
	Carpenter	Skilled	Do.	Do.	2-3 Years	Repairing of doors, windows, wooden furnitures. Preparing of wooden parts for textile machines, peking etc.
	Textile Machinery	H. Skilled	High Sch.	Do.	3-4 "	Assembling of textile machinery. Repair and maintenance of textile machines.
	(Mech) Do.	Skilled	Do.	Do.	2-3 "	Fitting of textile machines & matinte- nance & repair of textile machines.
	Folder/Calende /Pressman	er S. Skilled	V Class	Nil	Nil	Prepare finished cloth according to forms & operate calander machine.
	Diesel Mech.	Skilled	VIII Class	ITI/App.	2-3 Y1s.	Running of Diesel Engines & Diese generating sets. Maintenance o Diesel sets and attending minor faults
	Jobber	Skilled	Read & write	Nil	2-3 Years	Repair and Servicing of textile machine controlling of workers and distribution of work in the section.
	Drawer	Skilled	V Class or less.	Nil	6 Months	Drawing of yarn ends through heald and reeds. Set the yearn as per design
	Smash Hand	Skilled	Do.	Nil	2-3 Yrs	Joining of Warp ends, drawing of end through heald and reed, operate looms
	Moulder	Skilled	VIII Class	ITI/App	2-3 Yrs	Preparations of sand and moulds and d casting in C.I. Brass, Aluminium Bronze etc.
	Boiler Attendant	Skilled	High Sch.	App/Ship]	2-3 Yrs.	Running and maintenance of co. fired boiler (Lanka shire). Keepir log sheet.
	Boil e r Attendant	S. Skilled	High Sch.	App/Ship	Nil	Shovels coal into boiler, Adjust Stea: Pressure, Rakes fin. Remove as help boiler attendant.
	Sheat Metal	Skilled	VIII Class	1 TI/App.	2-3 Yrs.	Making Sheet metal items of texti machinery Making trays, ducts M.S., G.I. Tin sheet and Aluminium
	Swtich Board Attendant.	Skilled	High Sch.	Do.	2-3 Yrs.	Attend Generator & Motor Pane Keep log sheet, Adjust Voltage, curre etc.
	Motor Man	S. Skilled	VIII Class	Do. (Elect./ W. Man)	Nil	Start and stop electric motors, Atter routine maintenance and minor fau in motors.
	Air Conditio Attendant	n Skilled	High Sc.	Do.	2-3 Y15.	Operates Air Conditioning Plants, Adj temperature and control, humidity a attend minor repair of A.C. Plants.
Jute Spining Weaving	Fitter	Skilled	VIII Clas	s I.T.I.	2-3 Yrs	Preparation of machine parts as drawing and samples. Maintenan and repair of machines.
	Electrician	Skilled	High Sdh	. Do.	Do.	Wiring of motors, starters, panels ma tenance of electrical equipment a installation.
	Turner	Skilled	VIII Clas	s Do.	Do.	Preparation of machine parts as drawing & samples.

Appendix XI—Contd.

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1	2	3	4	5	6	7
Vool Spinning & Weaving in	Fenter	S. Skilled	V Class or less	Nil	6 Months	Fixing & replacing of bobbins and pass- ing slivers through guides.
A ill.	Weaver	S. Skilled	VII Class or less	Nil	Do.	Setting & adjusting of looms, preparation of looms and weaving of woollen cloths.
	Knitter	S. Skilled	V Class or less.	Nil	Do.	Operates flat and circular knitting mac- hines. Attend minor faults in the Machine.
-	Fitter	Skilled	VIII Class	I T I/App.	2-3 Yrs.	Maintenance of machines. Prepara- tion of spare parts as per drawing and samples.
	Wireman	Skilled	Do.	Do.	Do,	Wiring of machines and light circuits Maintenance & rep. of electrica equipments and installations.
	Turner	Skilled	Do,	Do.	Do.	Preparation of parts of textiles machine as per drawing & samples.
	Miller	Skilled	Do.	Do.	Do.	Various jobs on universal milling machine.
	Mason	Skilled	VIII Class	ITI/App.	2-3 Yrs.	Repair work of building, bricklaying plastering and concreating.
	Tailor	Skilled	Do.	Do.	Do,	Making of ready-made woollen gan ments.
	Carpenter	Skilled	Do.	Do.	Do.	Maintenance work, repair of furnitur and packing work.
	Driver	Skilled	Do.	Do.	Do.	Driving of light and heavy vehicle jeeps, cars and trucks.
	Boiler Attendant	Skilled	High Sch.	App/Ship	Do.	Running and maintenance of co fired boilers-maintenance of log book.
Ferpentine, Synthetic resin and	Fitter	Skilled	High Sch. or below	ITI/App.	Do.	Maintenance of machine tools, preparin of spare parts as per samples & draw ing Fabrication work. Repair of di pieces etc.
plastic products.	Electrician	Skilled	High Sch.	Do,	Do.	Wiring of machines, lighting circui maintenance and repair of motor starters etc. Maintenance of genera- ting sets, controlling of panel board etc.
	Machinist	Skilled	VIII Class	Do.	Do.	Planing, shaping, slotting, milli grinding work etc. Make parts as p drawing, die making.
	Turner	Skilled	Do.	Do.	Do.	Preparing of various types of jobs lathe machine.
	Welder	Skilled	High Sch.	Do.	Do.	Fabrication of frames, reclaiming of o parts, welding of C.I., M.S. Al- minium parts and brazing.
Sundry Hardwares	Fitter	Skilled	VIII Class	s Do.	Do,	General bench fitting, Preparation parts as per drawing. Maintenan work. Able to work upto an accura 0.025 mm.
	Do.	S. Skilled	Do.	Do.	Nil	General fitting work & maintenan of machines.
	Machinist	Skilled	Do.	Do.	2-3 Yrs.	Preparation of parts as per drawin operate shaper, slotter & milli, machines-operation of universal milli machine. Preparation of spares lathe machine etc.
	Do.	S. Skilled	Do.	Do.	Nil	Preparation of parts as per drawing shaper, slotter & milling machines.

Appendix XI—Contd.

1	2	3	4	5	6	7
Heavy Elec- trical Machinery	Electrician	H. Skilled	High Sch.	ITI/App.	3-5 Yrs.	All types of wiring, connections of all types of motors, transformers, rectifires etc., Rewinding of A.C. & D.C. machines, testing of high voltage equipments and their connections.
	Do.	Skilled	Do.	Do.	2-3 Yrs.	All types of wiring, connection of motors transformers, rectifires, fault location and repair of electrical equipments.
	Do.	S. Skilled	Do.	Do.	Nil	T.R.S. and conduit wiring, connection of motors & starters and helping elec- tricians.
	Machinist	Skilled	VIII Class	Do.	2-3 Yrs.	Preparation of parts as per drawing- operate shaper, alloter, milling machi- nes including universal milling machine.
Electronic equipments such as	Electrician	Skilled	High Sch.	Do.	3 Yrs	Wiring and maintenance of electrical equipments-wiring the components of
radio etc.	Electric Fitter.	Skilled	Do.	Do	Do.	tape recorders etc. Assembling of various components as per drawing-fitting of chasis and soldering etc.
Repairing & servicing of	Fitter	Skilled	VIII Class	Do.	2-3 Yrs.	Stripping & assembling and overhaul-
motor vehicles.	Electrician	Skilled	High Sch.	Do.	Do.	ing of Engines with Motor Mechanics. Overhauling of Dynamos, starters, horns adjusting of regulators and re- winding of D.C. dynamo and stenters.
	Machinist	Skilled	VIII Class	Do.	Do.	Grinding of Crank Shafts, cam shafts & cutting of gears, pressure plates, fly wheels etc.
	Turner	Skilled	Do.	Do.	Do.	Turning of Brake drum and axles upto an accuracy of ± 0.025 mm.
	Welder	Skilled	Do.	Do.	Do.	Welding of Bus body, Chasis and other fittings. Welding of C.I. Parts, re- claiming of parts and brazing.
	Black Smith	Skilled	Do.	Do.	Do.	Straightening of chasis and other parts repairing of springs and fabrication work.
	Carpenter	Skilled	Do.	Do.	Do.	Body building and Panel making.
	Driver	Skilled	Do.	Do.	D0.	Driving of Heavy duty vehicles, tata, leyland etc. Driving of light duty vehicles.
	Electro Plater	Skilled	Do.	Do.	Do.	Plating automobile parts, pipes, screws pins etc.
	Upholster	Skilled	VIII Class	ITI/App	2-3 Yrs.	Upholstery work of seats, cabins and repair of the same.
	Sheet Metal	Skilled	Do.	Do,	Do.	Bending of Tin Sheets, Aluminium Sheets and M.S. Sheets and fixing on the body. Dentremoving, hollow- ing wiring, revetting etc.
	Motor Mech.	Skilled	Do.	Do.	Do.	Stripping & inspection, testing, over- hauling of engines, injectors, gover- nors, F.I. Pumps etc. Adjusting of brakes, grinding of tappets, pressure plates etc.
onstruction maintenance f buildings.	Mason	Skilled	No speci- fic qualifi- cation	No speci- fic qualifi- cation	3-5 Yrs.	Bricklaying, plastering and repair work.
	Driver	Skilled	Do.	Do.	H.D. and	Driving of Truck, jeep, Tractor, Road Rollers, Minor Repair & maintenance of Petrol and diesel engines.

Appendix XI—Contd.

	Appendix XI—Contd.								
1	2	3	4	5	6	7			
Construction & maintenance of buildings.	Tracer D/Man (Mech)	S. Skilled	High Sch.	No speci- fic quali- fication	Nil	Tracing of drawing and making Blue and Ammonia Prints.			
	Mali	Skilled	No Speci- fic quali- fication	Do.	Do.	Gardening work, Graftin of plants, Treatment for decesses, seasonal plan- tation, application and types manure used.			
Generation & transmission of clectric energy.	Electrician	Skilled	High Sch.	I.T. I.	l Year	Connection of various high voltage equipments, testing of H.V. equipments			
	Wireman	Skilled	Jr. Do.	Do.	Do.	Connection of transformers, O.C.B's A.C.B's & high tension line const- ruction fitting and connection of line protecting equipments.			
Distribution of electric energy.	Fitter	Skilled	VIII Class	Do.	1 year or more	Maintenance and repair work Preparation of spare partas as per drawing and samples.			
	Electrician	Skilled	High Sch.	Do.	Do.	Connection of various testing equipments and maintenance of the same.			
	Turner	Skilled	VII Class	I.T.I.	1 Year or more	Preparation of spare Parts as per draw- ing or Samples.			
	Welder	Skilled	Do.	Do,	Do.	Welding of M.S., Stainless steel parts brazing of brass & Copper piper etc.			
	Carpenter	Skilled	Þo.	Do.	Do.	Maintenance and repair work and pack- ing of fregile items.			
	Cable Jointer	Skilled	D.0	• III/App.	1 Year	Joining of P.I.L.C.D.S.T.A. Cables with O.C.B.S., A.C.B's. and end boxes transformers and make straight & T. Joints.			
	Lineman	Skilled	D.0	Do.	Do.	Erection of poles, drawing of lines, con- netion of transformers, A.C.B.'s & O.C. B's maintenance and fault location of lines.			
	Sub-Station Attendant.	S.Skilled	Do.	Do.	Nil	Operation and maintenance of Sub- station equipment and control gears.			
	Armature Winder.	Skilled	High Sch.	Do.	1 Year	Rewinding of D.C. Armatures & A.C. Stators etc. & Coil winding etc.			
	Instrument Mechanic	Skilled	Do.	Do.	Do.	Preparation of Spare parts of machines and instruments.			
	Patrol man	S. Skilled	VIII Class	Do.	Nil	Patrolling of over head electrical lines			
	Motor Mech.	Skilled	Do.	Do.	l Year	Maintenance of Jeep, Tata & Leyland Trucks and Cars.			
Purification & distribu- tion of water.	Electrician	Skilled	High Sch.	Do.	3 Year	Maintenance & repair of pump motor wiring and connection of motors, Starters etc.			
	Driver	Skilled	VIII Class	Do.	Do.	Driving of trucks and Lorries.			
	Pump Driver/ Attendant	S.Skilled	Do.	Do.	Do.	Running of Turnine pumps & centri- fugal pumps Cleaning of pumps and routine maintenance.			
	Pipe Fitter	Skilled	Do.	Do.	Do.	Fitting of water and sewage line pipes upto 24' dia and plumbing.			
	Do.	S.Skilled	Do.	Do.	Nil	Fitting of C.I.M.S., G.I. Pipes upto 5' size and plumbing & helping the pipe fitter.			
Telephone Communication	Wireman Line Man	Skilled Skilled	VIII Class Do.	ITI App/Ship	2 -3 Years Do.	Wiring of telephone circuits. Erection of telephone lines and con- nection of over head lines and boxes			
	Telephone Operator.	Skilled	High Sch.	Nil	Do.	Able to read, speak simple English and converse in English and Hindi. Operate switch board and booking of calls.			

Appendix XI—Contd.

Appendix IX-Gontd.

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Contd.	tion	Telephone Mech.	Skilled	Do. atasi	Diploma		Assisting in installation and mainten ance of telephone exchange and tel phone connections.
•		Fitter	H. Skilled	High Sch.	App/Ship	3-5 Yrs.	Bench fitting of precision parts-accurate upto ± 0.025 mm. Making, fitting and checking of finished jobs.
		Do.	Skilled	VIII Class	III/App.	2-3 Yrs.	Bench fitting and maintenance wor Able to work upto an accuracy +0.025 mm.
	2	Do.	S. Skilled	Do.	Do.	1-2 Yrs.	Bench fitting and maintenance work a curacy up to ± 0.025 mm.
		Electrician	Skilled	High Sch.	Do.	3 Yrs.	Wiring of motors and starters, tran formers maintenance and repair electrical equipments.
		Do.	S. Skilled	Do.	Do.	1-2 Yrs.	Wiring of motors, starters and conne- tion of electrical equipments.
	1	Wireman	Şkilled	VIII Class	Do.	3 Yre.	Wiring of machines and lighting ci cuits and fault location & rectification in wiring.
	-	Machinist	H. Skilled		Do.	3-5 Yrs.	Work as per drawing in Shaper, Slotte Milling machines; Grinding of too Checking with gauges, Marking an setting of jobs as per drawing.
		Do.	killed	Do.	Do.	2-3 Yrs.	Prepare jobs as per drawing in Shap Slotter, Planer and Milling Machin
		Dò.	S. Skilled	Do.	Do.	1-2 Yrs.	Shaping, Planing & milling operation on C.I. & M.S. upto an accuracy 0.05mm.
		Turner	Skilled	Do.	. Do	2-3 Yrs.	Preparing of parts as per drawi grinding of tools, operate capsten a Turret lathes.
		Millwright		High Sch.	Do.	3 Yrs.	Maintenance and repair of all types machine tools.
		Do.	S. Skilled	Do.	Do.	1-2 Yrs.	Maintenance of machine tools-Disma talling, Oiling & Greasing of machin
		Grinder	Skilled	VIII Class	ĮΠ/App.	3 Yrs.	Grind the flat and cylindrical jobs up an accuracy of 0.003mm.
	:	Do.	S. Skilled	Do.	Do.	1-2 Yrs.	Grinding of jobs as per given drawi upto an accuracy of ± 0.008 mm.
		Miller	Skilled	Do.	Do.	3 Yrs.	Work as per drawing in horizont vertical & universal milling machi- upto an accuracy of ± 0.025 mm.
		Do.	S. Skilled	Do.	Do.	1-2 Yrs.	Work as per drawing on the abomachines upto an accuracy $+0.05$ mm.
	- 1	Mason	Skilled	Do.	Do.	3 Yrs.	Bricklaying, Plastering, Flooring a Repair Work.
		Do.	S. Skilled	Do,	Do.	1-2 Yrs.	Bricklaying and Repair work.
	1	Painter	Skilled	Do.	Do.	1-2 Yrs.	Painting of machine parts, Jerry ca by hand and spraying process. Mixi • of paints as per requirements.
		Do.	S. Skilled	Do	Do.	1-2 Yrs.	Painting of machine parts, Jerry cetc.
		Tailer	Skilled	Do.	Do.	3 Yrs.	Mark and cut as per drawing cotton a canvas cloth.
		Do.	S. Skilled	Do.	Do.	1-2 Yrs.	Stitch the covers as per marking a cutting.

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elephone communication -Contd.	Welder	Skilled	VIII class	III/AA.	3 Yrs.	Welding of C.I., M.S. Aluminium machine parts and brazing non-ferrous parts.
	Black Smith	Skilled	Do.	Do.	3 Yrs.	Forging and heat treating the parts.
	Carpenter	Skilled	Do.	Do.	3 Yrs.	Repair & Maintenance of doors, win- dows, wooden frames, making crates etc.
	Do.	S. Skilled	Do.	Do.	1-2 Yrs.	Repair & Maintenance work and helping the carpenters.
	Cable Jointer	H. Skilled	Read & write	Do.	3-4 Yrs.	Painting of U.G. Cables, Old and New.
	Driver	Skilled H. Duty an	Do. nd Light duty	Do.	3 Yrs.	Driving of H. duty and Light duty vehicles.
	Electroplater	Skilled	VIII Class	Do.	3 Yrs.	Plating of machine parts-Preparing plating solutions.
	Moulder	Skilled	Do.	Do.	3 Yr.	Preparing of sand, moulds & casting of.C.I., Aluminium & non-ferrous metals.
	Boiler Attendant	H. Skilled	High Sch.	App/Ship	5 Yrs.	Operation & maintenance of Lanka- shire boiler. Maintenance of log sheets. Attend minor faults.
	Boiler	Skilled	High Sch.	App/Ship	3 Yrs.	Shevelling of coal & operate the boile
	Attendant Armature Winder	Skilled	VIII Class_	III/App.	3 Yrs.	Helping the S.R. Attendant. Winding of A.C. Machines single phas & 3 phase, testing & connecting als winding of D.C. Armature.
	Instrument	Skilled	High Sch.	Do.	2-3 Yrs.	Repair and testing of Pneumatic, Hy
	Mechanic Pattern maker	Skilled	VIII Class	III/App.	3 Yrs.	dralic & Electrical instruments. Prepare patterns as per drawing an repair of patterns.
	Lab. Atten- dant	Skilled	High Sch.	App/Ship	Nil	Helping to test the materials chemicall and physically. Clean the lab equip ments.
	Tool and Die Maker	Skilled	Do.	III/App.	3 Yrs.	Preparing of die as per drawing an repairing of die.
	C.I. Worker	Skilled	Do.	App/Ship	3 Yrs.	Degreasing and cleaning of metal par chemically. Reclaiming of solution Preparation of chemical solution as pe instructions.
	Tool Hardner	Skilled	VIII Class		2-3 Yrs.	Heat treating of tools of tool steel an special alloy steels.
· · · · · · · · · · · · · · · · · · ·	Tool Setter	Skilled	Do.	••	3 Yrs.	Set the machines as per instruction grind the tools and set the tools i Milling Machine etc.
· · ·	D/Man (Mech) Skilled	High Sch.	III/App.	1-2 Yrs.	Drawing, Drafting & printing. Able t take dimension from samples an prepare drawing.
	Book Binder Compositor Hand	Skilled Skilled	VIII Class High Sch.	App/Ship Do.	1-2 Yrs. 1-2 Yrs.	
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Appendix IX-Concld.

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