

Trade wise Raw Material Requirement

Trade **Laboratory Assistant (Chemical Plant)**

Sector **CHEMICALS AND PETROCHEMICALS**

Type of Trade **Engineering Non Machine Group**

NSQF Level **5**

Affiliated to **NCVT**

DGET Trade Code **DGT/1062**

Duration in Years **2**

Intake Per Unit **20**

Raw Material for **First Year Training**

Total Items **100**

Total Amount **147550 Rs.**

Per Trainee Amount **7377.5 Rs.**

S.N.	Name of Item	Unit of Measurement	Rate per Unit in Rs.	Qty	Amount in Rs
1	Foam type fire extinguisher refill	no	3500	1	3500
2	Aparan,	no	320	24	7680
3	safety gloves	no	400	24	9600
4	Blue litmus paper strips	box	290	2	580
5	Red litmus paper strips	box	290	2	580
6	goggles,shoes	no	900	24	21600
7	Hydrochloric acid	lit	510	5	2550
8	Sodium carbonate	KG	310	1	310
9	Methyl orange	lit	198	1	198
10	Sulphuric acid 98% AR grade	lit	450	5	2250
11	Sodium bi Carbonate	kg	70	1	70
12	Ferrous ammonium sulphate	kg	420	1	420
13	Oxalic acid	kg	120	1	120
14	potassium permanganate,	kg	450	1	450
15	Sodium Hydroxide	kg	52	2	104
16	Phenolphthalien indicator	lit	170	1	170
17	Borax (Na ₂ B ₄ O ₇),	kg	220	1	220
18	Methyl Red,	lit	210	1	210
19	Conc. Nitric acid	lit	690	5	3450
20	Potassium Hydroxide	kg	620	1	620
21	Phosphoric acid	lit	105	1	105
22	Acetic acid	lit	690	3	2070
23	Hydrogen Peroxide	lit	80	1	80
24	Calcium chloride	kg	35	1	35
25	Ammonium oxalate	kg	690	1	690

S.N.	Name of Item	Unit of Measurement	Rate per Unit in Rs.	Qty	Amount in Rs
26	Ammonium hydroxide(liq Amm)	lit	390	1	390
27	Potassium Dichromate	kg	2390	1	2390
28	Diphenyl amine	kg	320	1	320
29	Potassium ferricynide	kg	680	1	680
30	Potassium iodide	kg	575	1	575
31	Starch indicator	kg	310	1	310
32	Sodium thiosulphate	kg	262	1	262
33	Copper sulphate	kg	710	1	710
34	Sodium Thiosulphate	kg	310	1	310
35	Potassium iodide	kg	730	1	730
36	Brass	kg	3100	1	3100
37	Potassium Iodate(KIO ₃)	kg	405	1	405
38	Chloroform	lit	220	1	220
39	Iodine	kg	1610	1	1610
40	Bleaching Powder	kg	50	1	50
41	Silver nitrate	kg	3500	1	3500
42	Sodium chloride	kg	800	1	800
43	Potassium chromate	kg	590	1	590
44	Ammonium thiosulphate	kg	1500	1	1500
45	Potassium Bromide	kg	400	1	400
46	Potassium thiocyanate	kg	590	1	590
47	Ferric allum	kg	15	1	15
48	EDTA	kg	240	1	240
49	Copper CHLORIDE	kg	2600	1	2600
50	Fast sulphon black	kg	2400	1	2400
51	Buffer solution	lit	3600	1	3600
52	Nickel sulphate	kg	390	1	390
53	Mureoxide Indicator	kg	3918	1	3918
54	Zincl sulphate	kg	1900	1	1900
55	Erichrome Black T	kg	1250	1	1250
56	Calcium carbonate	kg	420	1	420
57	Magnacium sulphate	kg	130	1	130
58	Ammonium acetate	kg	690	1	690

S.N.	Name of Item	Unit of Measurement	Rate per Unit in Rs.	Qty	Amount in Rs
59	Ammpnium Hydrogenphosphate	kg	190	1	190
60	Ammonium Nitrate	lit	300	1	300
61	Ammonium sulphate	kg	1468	1	1468
62	Liq.ammonia'	lit	390	1	390
63	Ammonium chloride	kg	485	1	485
64	Ammonium Nitrate	kg	580	1	580
65	Barium chloride	kg	560	1	560
66	Acetic acid	lit	675	2	1350
67	Nickel chloride	kg	3120	1	3120
68	Dimethyl glyoxime	kg	5100	1	5100
69	Zinc carbonate	kg	575	1	575
70	Cobalt nitrate	kg	1280	1	1280
71	Manganese dioxide	kg	120	1	120
72	Copper filling	kg	3520	1	3520
73	Ammonium molybdate	kg	12000	1	12000
74	Ammonium manganate	kg	520	1	520
75	Iron sulphide	kg	450	1	450
76	ammoniumchloride	kg	480	1	480
77	Ammonium sulphide	kg	290	1	290
78	Ammonium carbonate	kg	420	1	420
79	Sodium hydrogen phosphate	kg	250	1	250
80	Barium Nitrate	kg	700	1	700
81	Lead acetate	kg	4200	1	4200
82	Ferrous sulphate	kg	45	1	45
83	Potassium Chloride	kg	1900	1	1900
84	Barium sulphate	kg	380	1	380
85	Potassium nitrate	kg	920	1	920
86	Lead sulphate	kg	390	1	390
87	Cadmium chloride	kg	5300	1	5300
88	Ferrous chloride	kg	45	1	45
89	Zinc bromide	kg	120	1	120
90	Zinc iodied	kg	165	1	165
91	Calcium iodide	kg	2500	1	2500

S.N.	Name of Item	Unit of Measurement	Rate per Unit in Rs.	Qty	Amount in Rs
92	Magnacium chloried	kg	440	1	440
93	Aniline	lit	120	1	120
94	Acetic anhydride	lit	620	1	620
95	Glassical acetic acid	lit	640	1	640
96	Zinc dust,	kg	320	1	320
97	Benzene	lit	110	1	110
98	Sodium nitrate	lit	300	1	300
99	Sodium bicarbonte	kg	90	1	90
100	Dimethyl aniline	lit	140	1	140

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Sector **CHEMICALS AND PETROCHEMICALS**

Type of Trade **Engineering Non Machine Group**

NSQF Level **5**

Affiliated to **NCVT**

DGET Trade Code **DGT/1062**

Duration in Years **2**

Intake Per Unit **20**

Raw Material for **Second Year Training**

Total Items **100**

Total Amount **78130 Rs.**

Per Trainee Amount **3906.5 Rs.**

S.N.	Name of Item	Unit of Measurement	Rate per Unit in Rs.	Qty	Amount in Rs
1	Calcium chlride	kg	15	1	15
2	Cane sugar	kg	35	1	35
3	Nitrobenzene	lit	25	1	25
4	Tin (granulated)	kg	1700	1	1700
5	Phenol	lit	180	1	180
6	Bromine solution	lit	230	1	230
7	Potassium bromide	kg	380	1	380
8	Carbon tetra chloride	lit	290	1	290
9	Sulphanilic acid	lit	105	1	105
10	Spirit (absolute alcohol)	lit	55	1	55
11	glucose powder	kg	195	1	195
12	phenyl hydrozine	lit	6500	1	6500
13	Coconut Oil	lit	370	1	370
14	Acetyl Chloride	lit	220	1	220
15	turpentine oil	lit	450	1	450
16	Pthallic Anhydride	lit	90	1	90
17	Kerosene	lit	60	2	120
18	Oxalic acid	kg	420	1	420
19	Glycin	lit	310	1	310
20	Naphthalene	kg	160	1	160
21	sucrose	kg	90	1	90
22	Potassium sulphate	kg	750	1	750
23	Aluminium sulphate	kg	5100	1	5100

24	capillary tubes	box	410	4	1640
25	Fusion tubes	no	5210	1	5210
26	Thread	bundle	410	1	410
27	Copper Foil /powder	kg	1400	1	1400
28	Copper Oxide	kg	490	1	490
29	Filter Paper Ordinary	no	20	1	20
30	Glycerine	lit	520	1	520
31	nitro benzene	lit	25	1	25
32	Brass	kg	350	1	350
33	Sodium thiosulphate	kg	380	1	380
34	Solder alloy	kg	2800	1	2800
35	Calcium tablet	tablet	140	30	4200
36	Ammonium oxalate	kg	700	1	700
37	Pyrogallol	kg	2200	1	2200
38	Oil(edible)	lit	150	1	150
39	Ethanol	lit	80	2	160
40	Fehlings solution A	lit	600	1	600
41	Fehlings solution B	lit	600	1	600
42	Glucose	kg	180	1	180
43	Petroleum Ether	lit	700	1	700
44	oil cake	kg	20	1	20
45	urea	kg	250	1	250
46	Iodine Crystals	kg	160	1	160
47	Formaldehyde	lit	310	1	310
48	Methyl alcohol	lit	40	1	40
49	Sodium bicarbonate	kg	1500	1	1500
50	Ferric chloride	kg	35	1	35
51	Sodium metal	kg	380	1	380
52	Sodium nitrite	kg	350	1	350
53	Beta – naphtha	kg	190	1	190
54	Tollens reagent	kg	1200	1	1200
55	Sodium nitro prusside	kg	120	1	120
56	Bromine Water	lit	170	1	170

57	Phinolic acid	kg	120	1	120
58	Acetic anhydride	lit	620	1	620
59	Anilide	tablet	45	10	450
60	Benzamide	lit	490	1	490
61	Picric acid	kg	2600	1	2600
62	Hydrocarbons	kg	190	1	190
63	Phenyl hydrazine	kg	6000	1	6000
64	Meat extract	kg	800	1	800
65	Glucose powder	kg	210	1	210
66	Yeast extract	kg	492	1	492
67	Bromothymol blue	kg	60	1	60
68	crystal violet dye	kg	400	1	400
69	Acetone	lit	264	1	264
70	methylenblue	kg	430	1	430
71	silver sulphate	kg	250	1	250
72	ferrous ammonium sulphate	kg	80	1	80
73	buffer solution	lit	80	1	80
74	Eriochrome black T	kg	319	1	319
75	lithium hydroxide	kg	250	1	250
76	single karlfisher reagent	lit	560	1	560
77	helium gas cylinder	no	1900	1	1900
78	pure oxygen cylinder	no	1100	1	1100
79	Chromium oxide(CR2O3)	kg	823	1	823
80	Sample(carbon / sulphur)	kg	250	1	250
81	Silica gel	kg	450	1	450
82	Calcium Sulphate	kg	400	1	400
83	Congo red	lit	300	1	300
84	Phenol red	lit	100	1	100
85	tolune	lit	250	1	250
86	containing 10wt% dinonyl phthalate	no	70	1	70
87	Carrier gas pure nitrogen gas	no	3500	1	3500
88	Deionised water	lit	300	2	600
89	Acetonitrile HPLC GRADE	lit	800	1	800

90	Methyl alcohol,HPLC grade	lit	792	1	792
91	iso octane	lit	880	1	880
92	Water for Hplc	lit	590	2	1180
93	Exhaust air filter HPLC bottle adapter	pc	400	1	400
94	Fittings for HPLC bottle adapter	pc	230	10	2300
95	PTFE-ferrule HPLC bottle adapter (po10)	pc	40	10	400
96	Blanking plug HPLC bottle adapter (po10)	pc	100	10	1000
97	Air valve for HPLC bottle a	pc	200	1	200
98	Fittings for capillaries	pc	300	1	300
99	Blanking plug for HPLC bottle	pc	100	1	100
100	HPLC-bottle adapter S40	pc	120	1	120