

**List 1 (See S. No. 49 of the Table)**

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|---|---|---|
| (1) Amprolium hydrochloride                   | (14) Human chorionic gonadotropin hormone (HCG)                                 | (24) Pregnant mare serum (PMSG)           |
| (2) Ascorbyl dipotassium 2 sulphate dihydrate | (15) Ivermectin   | (25) Prostaglandin F2 alpha               |
| (3) Ascorbyl polyphosphate                    | (16) Lasolacid sodium   | (26) Prostaglandin                        |
| (4) Avoparcin                                 | (17) Leutinising hormone  | (27) Prostaglandins (PgF2 alpha)          |
| (5) Bovine albumin fraction                   | (18) Lincomycin powder  | (28) Robenidin HCl                        |
| (6) Bovine somatotropin                       | (19) Lincospectin (bulk drug lincomycin spectinomycin 1:2)                      | (29) Salinomycin 12%                      |
| (7) Buparvaquone                              | (20) Maduramicin ammonium/ haduramicin ammonium                                 | (30) Tiamulin hydrogen fumarate           |
| (8) Calf serum/foetal calf serum              | (21) Monensin granulated (coban premix)   | (31) Tiamulin hydrochloride               |
| (9) Dulbecco phosphate buffer saline medium   | (22) Ovaprim [gonadotropin releasing hormones] (GnRH) analogue with domperidone | (32) Tylan premix                         |
| (10) Flavophospholipol                        | (23) Pleuromutilin  | (33) Tylosin tartarate/ tylosin phosphate |
| (11) Follicular stimulating hormone (FSH)     |   | (34) Vaccine for fish                     |
| (12) Gonadotropin releasing hormone (GnRH)    |   | (35) Virginiamycin                        |
| (13) Halofuginone bromide                     |   | (36) 4-hexyl resorcinol                   |

**List 2 (See S. No. 81 and 371 of the Table)**

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|---|---|--|
| (1) 32 P Sodium Phosphate                             | (25) Anti-Rabies Normal Human Immunoglobulin  | (50) Chorionic Gonadotrophin                               |
| (2) Flucytosin  | (26) Aprotinin  | (51) Cobalt-60   |
| (3) 5-Fluorouracil                                    | (27) Atracurium besylate  | (52) Clindamycin   |
| (4) 6-Isoguanine                                      | (28) Baclofen   | (53) CoListin  |
| (5) Aclarubicin                                       | (29) Beclamide  | (54) Carboquone  |
| (6) Dactinomycin                                      | (30) Bemergide  | (55) Corticotrophin  |
| (7) Agglutinating Sera                                | (31) Bleomycin  | (56) Cyclocytidine   |
| (8) Allopurinol                                       | (32) Blood group sera   | (57) Cyclophosphamide                                      |
| (9) Ambenonium Chloride                               | (33) Burn therapy dressing soaked in gel  | (58) Cyanamide   |
| (10) Amikacin   | (34) Bovine Thrombin for in vitro test for diagnosis in Haemorrhagic disorders            | (59) Dacarbazine   |
| (11) Amino - glutothemide                             | (35) Bovine Albumin   | (60) Daunomycin  |
| (12) Amiodarone                                       | (36) Broxuridine  | (61) Daunorubicin  |
| (13) Amiphenazole                                     | (37) Bretyleum Tossylate  | (62) Desmopressin  |
| (14) Amphotericin-B                                   | (38) Busulphan  | (63) Desferrioxamine                                       |
| (15) Amrinone   | (39) Calcium Disodium Edetate   | (64) Diagnostic Agent for Detection of Hepatitis B Antigen |
| (16) Amsacrine  | (40) Carbidopa with Levodopa  | (65) Diagnostic kits for detection of HIV antibodies       |
| (17) Amylobarbitone Sodium                            | (41) Carmustine   | (66) Diphtheria Antitoxin sera                             |
| (18) Anti-Diphtheria Normal Human Immunoglobulin      | (42) Cefoperazone   | (67) Dimercaprol   |
| (19) Anti-Haemophilic Factor concentrate(VIII and IX) | (43) Ceftizoxime  | (68) Diazoxide   |
| (20) Anti-human lymphocyte immunoglobulin IV          | (44) Cesium Tubes   | (69) Dobutamine  |
| (21) Anti-human thymocyte immunoglobulin IV           | (45) Chenodeoxycholic Acid  | (70) Dispyramide Phosphate                                 |
| (22) Anti-Pertussis Normal Human Immunoglobulin       | (46) Chlorambucil   | (71) Edrophonium   |
| (23) Anti-Plague serum                                | (47) Chlormerdrin 197 Hg.   | (72) Dopamine  |
| (24) Anti-Pseudomonas Normal Human Immunoglobulin     | (48) Cholestyramine   | (73) Enzyme linked Immunoabsorbent Assay kits [ELISA KITS] |
|   | (49) Christmas Factor Concentrate (Coagulation factor IX prothrombin complex concentrate) | (74) Epirubicin  |
|   |   | (75) Fibrinogen  |
|   |   | (76) Floxuridine   |

- (77) Follicle Stimulating Hormone [FSH]
- (78) Fospestorol
- (79) Gallium Citrate
- (80) Gasgangrene Anti-Toxin Serum
- (81) Glucagon
- (82) Heptamine
- (83) Hepatitis B Immunoglobulin
- (84) Hexamethylmelamine
- (85) Histoglobulin
- (86) Hydralazine
- (87) Hydroxyurea
- (88) Idarubicine
- (89) Idoxuridine
- (90) Ifosfamide
- (91) Isoprenaline
- (92) Immunoassay kit for blood Fibrinogen degradation product for direct estimation for diagnostic test in D.I.C.
- (93) Inactivated rabies vaccine [Human diploid cell]
- (94) Inactivated rabies vaccine [Vero-cell]
- (95) (a) Indium (III) in bleomycin (b) Indium 113 Sterile generator and elution accessories (c) Indium 113 in brain scanning kit (d) Indium 113 in liver scanning kit
- (96) Interferon alpha - 2b/interferon alpha- 2a/Interferon NL/ Interferon alpha NL(LNS)
- (97) Intravenous amino acids
- (98) Intravenous Fat Emulsion
- (99) Iopamidol
- (100) Iohexol
- (101) Ketamine
- (102) Isoflurane
- (103) Selenium-75
- (104) Asparaginase
- (105) Calcium folinate
- (106) Lactulose
- (107) Levodopa with benserazine
- (108) Levodopa (L-Dopa)
- (109) Mannitol Busulphan preparations
- (110) Lomustine
- (111) Meningococcal A and C combined vaccine with diluant solvent
- (112) Melphalan
- (113) Mercaptopurine
- (114) Mesna
- (115) Methisazone
- (116) Methicillin
- (117) Methoxy isobutyl Isonitrile
- (118) Methotrexate
- (119) Methyl prednisolone
- (120) Methoxyflurane
- (121) Metrizamide Inj with diluant
- (122) Metraminol
- (123) Mithramycin
- (124) Nimustine
- (125) Mitotane
- (126) Mitomycin
- (127) MMR (Measles, mumps and rubella) vaccine
- (128) Latamoxef
- (129) Monocomponent insulins
- (130) Nalorphine
- (131) Mustin Hydrochloride
- (132) Netilmicin
- (133) Naloxone
- (134) Nitroglycerine
- (135) Normal Human plasma
- (136) Normal Human immunoglobulin
- (137) Nuclear magnetic resonance contrast agent
- (138) Normal Human serum Albumin
- (139) Penicillamine
- (140) Pancuronium Bromide
- (141) Pentamidine
- (142) Penicillinase
- (143) Peplomycin
- (144) Pilocarpine
- (145) Podophyllotoxin
- (146) Piperacillin
- (147) Poliomyelitis vaccine (inactivated and live)
- (148) Laureth 9
- (149) Polymyxin B
- (150) Polyestradiol
- (151) Potassium Aminobenzoate
- (152) Porcine Insulin Zinc Suspension
- (153) Praziquantel

- (154) Pralidoxime
- (155) Prednimustine
- (156) Prazosin
- (157) Porcine and Bovine insulin
- (158) Procarbazine
- (159) Purified Chick Embryo Cell Rabies Vaccine
- (160) Protamine
- (161) Pyridostigmine
- (162) Pyridinol Carbamate
- (163) Radio-immunoassay kit for hormones (T3, T4, TSH Insulin, Glucogen, Growth Hormone, Cortisol, L.H., FSH and Digoxin)
- (164) Quinidine
- (165) Radioisotope TI 201
- (166) Tribavirin/Ribavirin
- (167) Septopal beads and chains
- (168) Sodium Arsenate
- (169) Sodium Cromoglycate spincaps and cartridges
- (170) Sodium Hyalauronate sterile 1% and 1.4% solution
- (171) Solution containing Human Follicle Stimulating and Luteinising hormones
- (172) Solution of Nucleotides and Nucliosides
- (173) Somatostatin
- (174) Somatropin
- (175) Specific Desensitizing Vaccine
- (176) Sterile Absorbable Haemostat for control of surgical vessel bleeding
- (177) Streptokinase and Streptodomase preparations
- (178) Strontium Chloride (85 Sr.)
- (179) Strontium SR-89 Chloride
- (180) Suxamethonium Chloride
- (181) Testolactone
- (182) Technitium-99M
- (183) Thioguanine
- (184) Thallium 201
- (185) Ticarcillin
- (186) Tobramycin
- (187) Tissue Plasminogen Activator
- (188) Tranexamic Acid
- (189) Tocainide
- (190) Tri-iodothyronine
- (191) Triethylene Tetramine
- (192) Triethylene Thiophosphoramide
- (193) Trofosfamide
- (194) Tubocurarine
- (195) Urokinase
- (196) Ursodeoxycholic Acid
- (197) Vancomycin
- (198) Vasopressin
- (199) Vecuronium Bromide
- (200) Vindesin Sulphate
- (201) X-ray diagnostic agents, the following :-
- (i) Propylidone
- (ii) Ethyl iodophenylun decylate
- (iii) Iodipammide methyl glucamine
- (iv) Lipidoll ultra fluid
- (v) Patent blue
- (202) Anti -D Immunoglobulin
- (203) Aurothiomalate Sodium
- (204) Botulinum Toxin Type 'A'
- (205) Triptorelin
- (206) D.K. line 100% purified perflurodicalin liquid
- (207) Filgrastim /Molgramostim (G- CSF/GM-CSF)
- (208) Flecainide
- (209) Foetal Bovine Serum (FBS)
- (210) Gadolinium DTPA Dimeglumine
- (211) HTLV - 1 Western Blot Kits
- (212) Tetanus Immunoglobulin
- (213) BCG vaccine , Iopromide, Iotrolan
- (214) Legionella Pneumophilis IF kits
- (215) Muromonab - CD 3
- (216) Octreotide
- (217) Typhoid Vaccines :
- (i) VI Antigen of Salmonella Typhi, and (ii) Ty 2la cells and attenuated non-pathogenic strains of S. Typhi

- |  |  |  |
|--|--|--|
| (218) (a) Rabbit brains<br>thromboplastin for PT<br>test | (231) Amifostine   | (244) Fludarabine Phosphate              |
| (b) Reagent for PT tests                                 | (232) Gemcitabine  | (245) Lenograstim                        |
| (c) Human Thrombin for<br>TT tests                       | (233) Goserlin Acetate   | (246) Tretinoin                          |
| (219) Pneumocystis carinii IF<br>kits                    | (234) Teicoplanin  | (247) Eptifibatide                       |
| (220) Puenoxytelzamins                                   | (235) Recuronium Bromide   | (248) Mycophenolate Mofetil              |
| (221) Rabies immunoglobulin of<br>equine origin          | (236) Abciximab  | (249) Prostaglandin E 1 (PGE1)           |
| (222) Thrombokinas                                       | (237) Disodium Pamidronate   | (250) Natural Micronised<br>Progesterone |
| (223) Teniposide   | (238) Sevoflurane  | (251) Latanoprost                        |
| (224) Vidarabine   | (239) Ticarcillin Disodium and<br>Potassium Clavulanate<br>combination | (252) Riluzole                           |
| (225) Iscador, CLIA diagnostic<br>kits                   | (240) Trans-1- diamino<br>cyclohexane Oxalatoplatinum                  | (253) Cefpirome                          |
| (226) Lamivudine   | (241) Letrozole  |  |
| (227) Zalcitabine  | (242) Irinotecan   |  |
| (228) Saquinavir   | (243) Leuprolide Acetate   |  |
| (239) Zidovudine   |  |  |
| 230) Ritonavir   |  |  |

**List 3(A) (See S.No. 159 of the Table)**

**PARTS, CONSUMABLES AND OTHER ITEMS**

- (1) Leather, plastic, rubber coco board, masonite board or plastic board, heels with or without rubber/PVC top lift
- (2) Toe caps and counters for leather footwear
- (3) Insoles or midsoles and sheets therefor
- (4) Welts made from leather or plastic
- (5) Shoes eyelets
- (6) Felt sleeves
- (7) Heel tips
- (8) Unit soles with or without heels
- (9) Stamping wheels
- (10) Patterns for leather footwear
- (11) Plastic or nylon tipped hammers
- (12) Plastic, PVC or nylon lasts with or without steel hinges
- (13) Clicking boards for leather machinery
- (14) Harness needles for hand sewing pre-punched cards
- (15) Pre-punched cards
- (16) Leather designers kit, namely, designers knife, shoe measuring tape, designers tape and satra vaccum former
- (17) Industrial sewing machine needles with leather point
- (18) Bell skiving knives
- (19) Band knife for splitting machines
- (20) Cutting and clicking dies
- (21) Aluminium shoe forms with or without heating elements
- (22) Silver marking pencils or pens and refills thereof
- (23) Polyurethane films and polyurethane foils of thickness 0.3 mm. and above but not above 0.7 mm., for finishing leather
- (24) Non-woven material coated with thermoplastic for the manufacture of toe-counters
- (25) Cellulose board insole sheets
- (26) Leather board made from leather scrap for the manufacture of counters and stiffeners
- (27) Masonite or coco board
- (28) Sole leather bends
- (29) Styrene butadiene styrene oilbound copolymer for the manufacture of soles
- (30) Rubber, resin rubber, EVA or crepe sheets for soles and heels
- (31) Felt, all types
- (32) Sulphonated / sulphated / oxidised / chlorinated cod oil or sulphonated / sulphated / oxidised / chlorinated neats foot oil or sulphonated / oxidised / chlorinated fish oil or mixtures thereof
- (33) Pigment finishes for leather
- (34) Aluminium tanning agents, oil tanning agents, zirconium tanning agents, basic chrome sulphate
- (35) Polishes, creams and similar preparations for footwear or leather
- (36) Casein, resin (other than acrylic resin) and polyurethane binders
- (37) Slip agents of heading No. 32.08
- (38) Lacquer and lacquer emulsion of heading No. 32.08
- (39) Preservatives of heading No. 29.42
- (40) Synthetic fat liquors (with or without hydrocarbons), non-ionic fat liquors, and mixtures thereof
- (41) Fatty oil or pull up oil
- (42) Syntans
- (43) Solvent soluble dye Mordant Brown of Hue No.79
- (44) Solvent soluble dye Acid Brown of Hue Nos. 75, 76, 97, 98, 126, 127, 144, 159, 160, 161, 162, 165, 188, 191, 194, 196, 214, 237, 256, 265, 268, 270, 282, 290, 298, 303, 310, 321, 322, 349, 355, 358, 359, 360, 362, 365, 373, 387, 396, 402, 422, 425, 432, 433, 434 or 447
- (45) Solvent soluble dye Acid Black of Hue Nos. 50, 52, 71, 76, 82, 83, 84, 85, 115, 132, 169, 172, 194, 209, 210, 213, 215, 221 or 234
- (46) Solvent soluble dye Acid Blue of Hue Nos. 115, 133, 134, 193, 254, 260, 312 or 349
- (47) Solvent soluble dye Direct Blue of Hue No. 59 or 78
- (48) Solvent soluble dye Acid Red of Hue No. 97, 119, 120, 167, 231, 234, 248, 283, 324, 362, 399, 404, 407 or 423
- (49) Solvent soluble dye Direct Red of Hue No. 23, 99, 111 or 239
- (50) Solvent soluble dye Acid Green of Hue No. 20, 26, 68 or 111
- (51) Solvent soluble dye Acid Orange of Hue Nos. 51, 66, 78, 80, 95, 162, 168 or 170
- (52) Solvent soluble dye Acid Violet of Hue No. 54, 80 or 90
- (53) Solvent soluble dye Acid yellow of Hue No. 96, 99, 194, 204, 220 or 243
- (54) Solvent soluble dye Direct Orange of Hue No. 61
- (55) Solvent soluble dye Direct Brown of Hue No. 94 or 209
- (56) Solvent soluble dye Direct Violet of Hue No. 46
- (57) Solvent soluble dye Direct Black of Hue No. 120 or 155 and
- (58) Solvent soluble dye Direct Green of Hue No. 66.

**OTHER PARTS,  
CONSUMABLES AND ITEMS**

(1) Formulations containing either Thio Cyano Methyl Thio Benzothiazole (TCMTP) or Para Chloro Meta Cresol (PCMC) or both; Self basifying chrome tanning agents

(2) Penetrators

(3) Stamping foil in strips of width not exceeding 6 inches

(4) Eyelets, hooks, rings, all type locks including magnetic locks, push clips, metal handle, key chain holder, corners, puller, fancy caps, clamps, decorative rivets, decorative fittings and logos, handle holders, studs, sockets, hinges, buckels, metal frames, tacks and washers

(5) Buttons, press-fasteners and snap-fasteners falling under heading No. 96.06

(6) Magnetic buttons

(7) Abrasive sheets falling under sub-heading No. 6805.20

(8) Shanks and welts falling under heading Nos. 73.26 and 64.06 respectively

(9) The following chemicals for the manufacture of leather chemicals :

(I) Phenol

(II) Naphthalene

(III) Paraffin wax

(IV) Dicarboxylic acid and mixtures thereof

(V) Acrylic acid / Methacrylic acid

(VI) Synthetic substitute for Sperm oil

(VII) Synthetic substitute for Neats foot oil

(VIII) Alcohol mixture of C<sub>9</sub> , C<sub>10</sub> , C<sub>11</sub>

(IX) Thio cyano methyl thio benzothiazole (TCMTB)

(X) Para chloro meta cresol (PCMC)

(XI) Lactic Casein

(XII) Titanium Dioxide

(XIII) Iron Oxide

(XIV) Cellulose Acetate Butyrate

(XV) Methoxydihydropyran

(XVI) Dioxy Diphenyl Sulphone

(XVII) Dehydro Thio Paratoludine

(XVIII) Nitro Amino Phenol Sulphonic Acid

(XIX) Dicyandiamide

(XX) Silicone Oil in solvent or water

(XXI) Sodium Picramate

(XXII) Methyl Pyrozollic Acid

(XXIII) Itaconic Acid

(XXIV) 1-Methoxy Propanol-2

(XXV) Ethyl Acetate

(XXVI) Butyl Acetate

(XXVII) 2 Ethyl Hexyl Acetate

(XXVIII) Emulsifiers

(XXIX) Ethyl Glycol

(XXX) Butyl Glycol



**List 4 (See S. No. 176 of the Table)**

- (1) Cold drawn free cutting brass rods of diameter 0.4 mm. to 14 mm.
- (2) Leaded brass strips and sheets in coils or flats of thickness upto 4 mm. and width upto 40 mm.
- (3) Leaded brass strips in coils or in straight length of thickness 0.01 mm. to 0.05 mm. and width upto 50 mm.
- (4) Leaded naval brass strips in coils of thickness 0.12 mm. to 3 mm. and width 8 mm. to 30 mm.
- (5) Nickel silver brass strips / flats of thickness 0.10 mm. to 1.50 mm. and width 6 mm. to 55 mm.
- (6) Phosphor bronze strips of thickness 0.02 mm. to 1.5 mm. and width from 10 mm. to 30 mm.
- (7) Phosphor bronze rods of diameter 0.5 mm. to 2 mm. and length upto 3000 mm.
- (8) Brass pipes of outer diameter 0.45 mm. to 1.9 mm.
- (9) German silver rods of diameter 5 mm. to 10 mm.
- (10) Horological steel rods (leaded) bright drawn or centreless ground finish in perfectly straightened lengths of diameter 0.3 mm. to 6 mm. and length upto 3 metres
- (11) Horological steel strips cold rolled with accurate flatness and bright regular edges of thickness 0.01 mm. to 1 mm. and width 0.2 mm. to 30 mm.
- (12) Super alloy strips, of thickness upto 0.70 mm. and width upto 40 mm.
- (13) Synthetic ruby for watch jewels
- (14) Spring steel strips type DIN 2075 K1<sub>2</sub> of thickness 0.01 mm. to 0.5 mm. and width 0.2 mm. to 0.5 mm.
- (15) Stainless steel strips of thickness 0.01 mm. to 1.5 mm. and width upto 45 mm.
- (16) Stainless steel wire in coils for click spring and setting lever spring of diameter 0.1 mm. to 1.5 mm.
- (17) Brass flats of thickness upto 6.5 mm., width upto 50 mm. and length upto 2000 mm.
- (18) Brass rods of diameter upto 36.5 mm.
- (19) Nickel silver rods of diameter upto 3 mm. and length upto 3000 mm.
- (20) Leaded brass pipes of outer diameter 18 mm. to 35 mm., and inner diameter 10 mm. to 30 mm.
- (21) Stainless steel flats, cold rolled or hot rolled for manufacture of watch case bezels and other watch parts, of thickness 2.5 mm. to 10 mm. and width upto 55 mm.
- (22) Cold rolled stainless steel strips for the manufacture of watch back covers and other watch parts, of thickness upto 5.0 mm. and width upto 55 mm.
- (23) Unleaded brass strips of thickness 0.07 mm. to 1.5 mm. and width 5 mm. to 50 mm.
- (24) Phosphor Bronze strips in coils of thickness 0.125 mm. and width 28 mm.
- (25) Lacquers and varnishes
- (26) Brass circles of thickness 0.4 mm. to 0.5 mm. and diameter 24 mm. to 50 mm.
- (27) Brass for making appliques/indexes/logos/windows with 2 feet, of thickness 0.3 mm. to 2 mm. and width 1 mm. to 4 mm.
- (28) Nickel silver circles of thickness 0.5 mm. and below and diameter 24 mm. to 50 mm.
- (29) Tritium activated zinc sulphide
- (30) Luminous compounds for dials
- (31) Silver solder core wire for dial legs in straight length or in coil of diameter 0.4 mm. to 1 mm.
- (32) German silver strips of thickness 0.1 mm. to 1 mm. and width 5 mm. to 10 mm.
- (33) Free cutting quality stainless steel rods of diameter upto 6 mm. and length upto 3000 mm.
- (34) Polyamide strips of thickness upto 0.10 mm. and width upto 15 mm.
- (35) Copper berillium strips in coils of thickness upto 0.35 mm. and width upto 25 mm.
- (36) Polished steel strips in coils of thickness 0.05 mm. to 0.5 mm. and width upto 15 mm.
- (37) Leaded brass rods of diameter 0.5 mm. to 20 mm. and length upto 3000 mm.
- (38) Nickel silver strips of thickness upto 0.1 mm. and width upto 50 mm.
- (39) Titanium copper strips in coils/cut lengths of thickness 0.18 mm. to 0.20 mm. and width 15 mm. to 20 mm.
- (40) Aluminium alloy strips whether or not in coil of thickness upto 0.55 mm. and width upto 35 mm.
- (41) Leaded beryllium copper rods of diameter 0.5 mm. to 20 mm. and length upto 3000 mm.
- (42) Stainless steel pipes of outer diameter 1.8 mm., inner diameter 1.54 mm. and length upto 3000 mm.
- (43) Mineral glass sheets

- (44) Copper wire of diameter 1 mm. to 2.5 mm. for making logos/indexes/applique, for watch dials
- (45) Crystal glass chatin (cast glass profiles, edge worked and enamelled with reflecting layer) for watch dials
- (46) Unleaded brass sheet of thickness 0.10 mm. to 1.5 mm., width upto 250 mm. and length upto 1250 mm.
- (47) Titanium strips of thickness 0.01 mm. to 2.0 mm. and width upto 55 mm.
- (48) Titanium flats of thickness upto 7 mm. and width upto 55 mm.
- (49) Titanium rods of diameter upto 20 mm. and length upto 3000 mm..

**List 5 (See S. No. 196 of the Table)**

- (i) Brick press with accessories like moulds, pallets, stackers, clamping devices or the like for fly ash sand-lime brick capacity 3000-5000 bricks/hr. up and down stroke pressure 300-400 kgs. / sq.m.
- (ii) Flyash block making machine of capacity 1000 - 2000 block/hr. with vibrators, mixer and accessories like moulds, pallets, stackers, clamping devices or the like
- (iii) Mixer with bottom valve and outlet pipes for cellular concrete
- (iv) Moulding equipment, cross cutting plant and longitudinal cutting plant, for cellular concrete
- (v) Centering bridge for moulds
- (vi) Moving grate sintering strand for light weight flyash cellular concrete
- (vii) Purification plant including diaphragm, pump, vaccum filter, gas scrubber, for phosphogypsum
- (viii) Flash calciner
- (ix) centrifuge for calcination equipment
- (x) Partition panel plant
- (xi) Moulds for phosphogypsum
- (xii) Drier-cum-calciner
- (xiii) Edge Runner Mill (for crushing and kneading of Clay and Flyash Mixture output 15 to 40 tons per hour depending on the perforation of the grinding plates)
- (xiv) Pan Mixer (output 25 tons per hour)
- (xv) Double Shaft Mixer (for mixing of the material consisting of Clay and Flyash)
- (xvi) Vaccum Worm Press Extrusion machine (capacity of the press up to 36 tons of material per hour)
- (xvii) Mouth piece (for the above vaccum Worm Press with dimensions corresponding to the required type of Bricks or Blocks which will be produced)
- (xviii) Automatic Equipment (for cutting and handling of Bricks between the pressing shop and dryers)
- (xix) Plant and Machinery required for making hollow-core roofing/flooring units
- (xx) Large-size plants for manufacturing of hollow and solid concrete blocks for walling
- (xxi) Mechanised hydraulically operated Tunnel Form of Wall forms, Slabforms, Column forms
- (xxii) Large-size vibrating-beds with integrated curing and wire-tensioning arrangements
- (xxiii) Vibrating-distributors for speedy production of prefab building parts
- (xxiv) Hydraulic presses for manufacturing pavement blocks
- (xxv) Hydraulic heavy duty press for making Hollow and Solid Concrete Blocks
- (xxvi) Foam Generating Equipment, spiral pumps and Foaming compound for light weight cellular concrete
- (xxvii) Densified wood fibres plates for door shutters

**List 6 (See S.No. 203 of the Table)**

- |  |  |  |
|--|--|--|
| (1) Air blast dust removing machine                                    | (25) Button Hole (Eyelets end) machine         | (52) Dyeing machine  |
| (2) All types of staking machines except slocum (slow combing process) | (26) Button Sewing machine                     | (53) Edge buffing machine  |
| (3) Automatic Drying machine   | (27) Button stitch / Sewing machine            | (54) Edge Inking machine   |
| (4) Automatic Lacing machine   | (28) Cementing machine                         | (55) Edge Pre-Trimming machine   |
| (5) Automatic Leather Perforating and/or Punching machine              | (29) Cementing machine and cementing gun       | (56) Edge Setting machine  |
| (6) Automatic Lock-Stitching Cylinder Bed Bartacker                    | (30) Chain Slotting machine                    | (57) Edge Trimming machine   |
| (7) Automatic machine to control, to slant and to glue leather straps  | (31) Channel Closing machine                   | (58) Elastic inserting machine on variety of garments                        |
| (8) Automatic Milling machine  | (32) Channelling and Grooving machine          | (59) Electrical machine for cutting and slanting straps                      |
| (9) Automatic Milling-Boring Machine                                   | (33) Clicking Board levelling machine          | (60) Electro pneumatic weaving machine for leather                           |
| (10) Automatic or semi-automatic hydraulic press (750 tonnes or more)  | (34) Clicking machine                          | (61) Electronic skin assessor  |
| (11) Automatic Padding machine   | (35) Clicking Machine Hydraulic (Bottom)       | (62) Embossing Plates for Press for leather printing                         |
| (12) Automatic Spraying machine  | (36) Colorimeter                               | (63) Engraved rollers for Press for leather printing                         |
| (13) Automatic Tacks - Reinforce machine                               | (37) Column Boring machine                     | (64) Evening and Roughing machine for Soles and Insoles                      |
| (14) Automatic Work Unit for assembling the complete Insole            | (38) Computerised Sewing Machine               | (65) Fibre Board Flexing machine   |
| (15) Back Part Moulding machine  | (39) Computerised Skiving machine              | (66) Fine Turn machines for Lasts  |
| (16) Band-saw with or without Flier                                    | (40) Conveyor system                           | (67) Finish Sheet Resistance Tester  |
| (17) Bandknife Splitting machine                                       | (41) Counter Cementing Machine                 | (68) Finishing Machine for Lasts   |
| (18) Belt Punching and cutting machine                                 | (42) Counter Moulding machine                  | (69) Fixed Head/Travailing Head Clicking Cutting machine                     |
| (19) Bobbin machine with counter                                       | (43) Counter Tightening machine                | (70) Flat Bed Double Needle Sewing machine                                   |
| (20) Boot leg ironing machine  | (44) Coupling and edge pre-trimming machine    | (71) Flat Bed Single Needle Industrial Sewing machine with or without trimer |
| (21) Bottom Leather Grain Crack Tester                                 | (45) Crimping machine                          | (72) Folding machine for brief cases and other leather products              |
| (22) Bottom roughing and/or scouring machine                           | (46) Crumpling and embossing machine           | (73) Folding machine for sides for Brief Case                                |
| (23) Box Stamping machine  | (47) Curtain coating machine                   | (74) Forepart conditioning machine   |
| (24) Buckle Stappling machine  | (48) Cylinder Bed Sewing machine               | (75) Frame Fixing/Frame Folding machine                                      |
|  | (49) Die Bending machine                       |  |
|  | (50) Double Band Cleaning machine              |  |
|  | (51) Dust removing machine-pneumatic/hydraulic |  |

- (76) Fusing presses
- (77) Halogen and Adhesive Application machine
- (78) Hand Operated Press for Inserting Perforation Tubes and Prickers
- (79) Heat Setting plant
- (80) Heat transfer press
- (81) Heel and Sole Brushing machine
- (82) Heel and Sole Buffing machine
- (83) Heel Attaching machine
- (84) Heel Breast Cementing machine
- (85) Heel breast roughing machine
- (86) Heel Breasting machine
- (87) Heel Building machine
- (88) Heel Covering machine
- (89) Heel Molder Flanger
- (90) Heel Nailing machine
- (91) Heel profiling machine
- (92) Heel seat and side lasting machines
- (93) Heel Seat Cement Lasting machine
- (94) Heel Trimming / pretrimming / Cupping or combined machine
- (95) High Speed Corner Stitching machine
- (96) Hole punching machine
- (97) Hot Melt Applicators
- (98) Humidifier for Uppers
- (99) Hydraulic / Pneumatic sammying and /or setting machine
- (100) Hydraulic automatic plating ironing machine
- (101) Hydraulic Bending machine
- (102) Hydraulic Fleshing machine
- (103) Hydraulic Ironing and Embossing Press
- (104) Hydraulic Scudding machine
- (105) Hydraulic Setting machine
- (106) Hydraulic Shaving machine
- (107) Hydraulic Shearing machine
- (108) Hydraulic Splitting machine
- (109) Hydraulic Sulphide applicator
- (110) Injection Moulding of PVC/TPR Soles, Inserts and Half Soles
- (111) Injection Moulding press to produce Plastic shoe Lasts
- (112) Insole Attaching machine
- (113) Insole Backpart Stiffener Tester
- (114) Insole Bevelling machine
- (115) Insole Covering machine
- (116) Insole moulding machine
- (117) Ironing and Conditioning machine
- (118) Kamborian Lasting machine
- (119) Knife Grinding machine
- (120) Knife making equipment for cold steel and forged steel
- (121) Label stitching machine
- (122) Last Turning machine
- (123) Lastometer
- (124) Leather buffing machine
- (125) Leather cover cutting machine for Heels
- (126) Leather Polishing machine
- (127) Leather rolling machine
- (128) Lining roughing machine
- (129) Lining Trimming machine
- (130) Loop closing machine
- (131) Loose / Nailing machine
- (132) Manual loop cutter
- (133) Mckay Stitching machine
- (134) Milling machine for shoe Uppers
- (135) Moccasin Lining Trimming machine
- (136) Moccasin Performing machine
- (137) Motorised hides and skins stamping machine
- (138) Moulds for rubber sole direct vulcanising press and PVC direct injection soling machine
- (139) Multiple Row Upper Chain Stitching machine i.e. 3 Rows and above
- (140) Three Needles for Small Arm Cylinder machine for Multiple Row Stitching
- (141) Outsole Stitching machine
- (142) Paste drying unit
- (143) Pattern binding machine
- (144) Pattern corner cutting and binding machine
- (145) Pattern Grading machine
- (146) Pattern making machine
- (147) Pattern Perforator
- (148) Pattern Plan
- (149) Pattern scanner
- (150) Pattern Scanning machine
- (151) Piping machine for trimming and embellishment fixing machine
- (152) Plan Computer Controlled Nesting System
- (153) Pneumatic Broaching machine
- (154) Pneumatic control moulder machine for buckles
- (155) Pneumatic fusing machine for ironing fusible interlining



- (156) Polishing machine
- (157) Polyshanking machine
- (158) Polyurethane / PVC / TPR Sole, Insole, Heel, Heel Tip Injection Moulding machine (single or multiple station)
- (159) Pore part lasting machine
- (160) Post Bed Double Needle Sewing machine
- (161) Post Bed Single Needle Sewing machine
- (162) Post Bed Single Needle under Edge Trimming
- (163) Pounding or beating or ironing machine or combination of such machines
- (164) Pre-lasting conditioner
- (165) Preparing and polishing machine
- (166) Pulling Over and Cement Lasting machine
- (167) Pulling Over Machine
- (168) Punches for model room
- (169) Punches of all varieties
- (170) Punching and / or eyeletting machine
- (171) PVC / PU direct injection soling machine (DIP construction)
- (172) Quilting machine
- (173) Raised Cord Sewing machine
- (174) Reactivating Plant for Shoe and Soles
- (175) Recessing and Roughing Soles machine
- (176) Recessing Welt machine
- (177) Rotary Collection Unit
- (178) Rotary Pigment Coating machine
- (179) Rotary Printing machine
- (180) Rough Turn machine for lasts
- (181) Roughing machine for Plastic Blocks
- (182) Roughing machinery for upper or soles or insoles
- (183) Rubber sole direct vulcanising press (DVP construction)
- (184) Satra Plan and Knife search
- (185) Scissors Cutting machine for plate
- (186) Scouring and Blending machine
- (187) Screwing machine
- (188) Seam Ironing machine
- (189) Sectioning machine
- (190) Sewing machine Cylinder Bed
- (191) Sewing Machine for Ruffled Work and Genuine Mocassin
- (192) Sewing Machine Zig Zag Flat Bed
- (193) Shank / Sole / Counter reducing machine
- (194) Shank Rivetting machine
- (195) Shears for cutting pattern
- (196) Shears for Iron Bars
- (197) Side Lasting machine
- (198) Sidewall Roughing machine
- (199) Skiving machine
- (200) Slike Fastener Fatigue Tester
- (201) Snap fasteners fixing machine with or without dies therefor
- (202) Sole / Heel / Seat Roughing machine
- (203) Sole Edge Recessing / Shapping machine
- (204) Sole Levelling machine
- (205) Sole Stamping / Embossing machine
- (206) Soling Material Abrasion machine
- (207) Spiral Cutting machine/ Cutting Press
- (208) Spray Booths
- (209) Stamping machine for Upper / Lining / Socks
- (210) Steam Toe Press
- (211) Stich Marking machine
- (212) Strap / Strip Cutting machine
- (213) Strap Folding machine
- (214) Stretching and drying machine with or without conveyor and toggles
- (215) String Lasting machine
- (216) Strobel type stitching machine
- (217) Studs Attaching machine
- (218) Suit Case Stitching machine
- (219) Tack heel seat lasting machine
- (220) Tack Lasting machine
- (221) Tack Side lasting machine
- (222) Tanning and colouring drums
- (223) Tapping and seam rubbing machine
- (224) Testing Equipments, namely :- Flexometer / Upper material flexing machine, Tensometer / Lastometer, Permeometer / Upper leather water proofness tester, Penetrometer / Bottom Leather water penetration machine, Finish rub fastness tester, Upper leather abrasion resistance machine, Dome plasticity apparatus, Finish flet resistance tester, Adhesion of finish tester, Leather shrinkage temperature determination apparatus, Wrinklometer, Bottom Leather grain crack tester, Electronic moisture meter, Dyeing and fumbling machine for laboratory, fibre board flexing machine, State of cure apparatus, Ross Flexing machines, Soling materials abrasion machine, Heel fatigue tester, Heel impact tester, Centilever tensiometer, Viewing box for assessing visible damage, Slide fastener fatigue tester, Insole backparts stiffness tester, shoe flexing machine, Break / pipness scale, Sole Adhesion tester, Safety Footwear impact tester, Rapid tear tester, Needle holding jig, Shoe lace adhesion machine

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|---|--|--|
| (225) Thermo cementing and folding machine                      | (240) Upper Reinforcing machine                        | (252) Pneumatic staple gun for stapling insoles, heels and uppers                        |
| (226) Toe Cap Applicator Thermoplastic                          | (241) Upper Seam Rubbing / Beating machine             | (253) Stapling machine for lows to upper on leather shoes                                |
| (227) Top Lift Slugging machine                                 | (242) Vaccum Drying machine                            | (254) Lighting assessment cabinet (for checking colour under different light conditions) |
| (228) Transfer Arm  | (243) Vaccum forming machine for last with vaccum pump | (255) CAD/CAM equipment for shoe desgining and pattern engineering including software    |
| (229) Trimming/milling machine with or without polishing device | (244) Vice for holding pattern                         | (256) Bistep cutting machine   |
| (230) Twin Needle, needle feedlock stitch sewing machine        | (245) Vision Lasting System for Toe Lasting machine    | (257) Spiking machine  |
| (231) Twin Sole Attaching machine                               | (246) Vulcanizing Press                                | (258) Airhood with grinder   |
| (232) Two Needle Lock Stitching machine                         | (247) Welt (Rand) Attaching machine                    | (259) Sock liner press   |
| (233) Unlasting machine   | (248) Aquamix for use in Tanning industry              | (260) Box folding machine  |
| (234) Upper Cementing machine                                   | (249) Prodomix for use in Tanning industry             | (261) Outsole plates   |
| (235) Upper Edge Inking machine                                 | (250) Microtan / Computan for use in Tanning industry  | (262) Dust collector systems   |
| (236) Upper Embossing machine                                   | (251) Pneumatic press for engraving and marking        | (263) Shoe box making machine  |
| (237) Upper Folding machine                                     |  | (264) Splitting machine (fitted with electronic and computer devices, etc.)              |
| (238) Upper Forming machine                                     |  | (265) Moulds for leather footwear  |
| (239) Upper Perforating machine                                 |  |  |

**LIST 7 (See S. No. 205 of the Table)**



- |                                  |  |   |
|----------------------------------|--|---|
| (1) Sarin Dia Planner            | (36) Jewel Cad software  | (61) Engravers  |
| (2) Colorimeter                  | (37) Investment powder   | (62) Hand helm Micro Motor with variable speed                          |
| (3) Proportion Scope             | (38) Mould rubber  | (63) Tumbling machines  |
| (4) Diamond Tester               | (39) Injection Wax   | (64) Rotary, Tumbler with Media   |
| (5) Moissanite Tester            | (40) Electro plating solutions                                 | (65) Centrifugal Barrel Polishing machine with media                    |
| (6) Stimulant Set                | (41) Tools and equipment relating to handmade process          | (66) Buffing machine  |
| (7) OGI Mega scope               | (42) Multiple pass drawing machine                             | (67) Dust collectors  |
| (8) Gemmoscope                   | (43) Drawing benches   | (68) Electro polishing unit   |
| (9) Microscope of all types      | (44) Tube forming machines                                     | (69) Electroplating unit  |
| (10) U.V Lamp                    | (45) Machine for chain soldering side by side                  | (70) Ultrasonic cleaning machine  |
| (11) Stoppani Gauge              | (46) Spirals making machines                                   | (71) Vibrator with steel media  |
| (12) Gem meter                   | (47) Presses (Eccentric, Hydraulic drawing press)              | (72) Split lap machine  |
| (13) Day light lamp              | (48) Rolling machine (combined/Profile Groovers/ strip making) | (73) Analytical balances  |
| (14) Loupes and Sieves           | (49) Casting machines/ vacuum/ centrifugal                     | (74) Cupellation furnace  |
| (15) Hardness pencil set         | (50) Valcangers  | (75) XRF machine  |
| (16) Refractometer               | (51) Investment Mixing machine                                 | (76) Gold/Paste, gold solders   |
| (17) Polariscope                 | (52) Wax injector  | (77) Braking machine  |
| (18) Dichroscope                 | (53) Programmable Burnout Furnace                              | (78) Gas Torch  |
| (19) Color master                | (54) Devaxing oven machine                                     | (79) Breezing torch unit  |
| (20) Geiger mular counter        | (55) Sand blasters   | (80) Brazing plates   |
| (21) Spectroscope of all types   | (56) Frames  | (81) Drills, Burs, Needles  |
| (22) Furnace with microprocessor | (57) Pneumatic sprue cutter                                    | (82) Compounds, Chemicals, Buffs and Compounds, Salts, Solutions, Baths |
| (23) Steam cleaner               | (58) Flexible shafts with motor                                | (83) Silver pastes, silver solders Findings                             |
| (24) Magnetic polisher           | (59) Hand held micro motors light duty                         | (84) Testing equipments   |
| (25) Plating machine             | (60) Hand pieces for flexible shaft                            | (85) Electo Discharge machine   |
| (26) Vacuum pump                 |  | (86) Engraving machine  |
| (27) Foredom motors              |  | (87) Drilling machine   |
| (28) Files, Brushes, all types   |  | (88) Milling machine  |
| (29) Laser soldering machine     |  | (89) Surface Grinding machine   |
| (30) X ray compact machine       |  |   |
| (31) Electroforming machine      |  |   |
| (32) Micromatic wax welder       |  |   |
| (33) Stamping machine            |  |   |
| (34) Refining system             |  |   |
| (35) JCDS software               |  |   |

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|--|---|--|
| (90) Electronic Weighing balance<br>carats/grams | (97) Stamping Press of all types  | (103) Hand saw beads   |
| (91) Other apparatus and tools                   | (98) Stamping Dies  | (104) Inter-changeable tools, hand<br>tools or power operated tools<br>for pressing, stamping,<br>punching and tapping |
| (92) Ventilation system with air<br>purifier     | (99) Engraving block and gravers  | (105) Hand tools, blow lamp<br>anvils, portable forges, hand<br>and pedal operated grinding<br>wheels with frame works |
| (93) Safety glasses                              | (100) Various tools, punches,<br>hammers, anvil, files  |  |
| (94) Masks                                       | (101) Conveyor Belf Furnace   |  |
| (95) Precious Metal Salts                        | (102) Machine tools for working in<br>hand pneumatic hydraulic or self-<br>contained non electric motor |  |
| (96) Melting pots                                |   |  |

**List 8 (See S. No. 207 of the Table)**

- |                             |                           |                            |
|-----------------------------|---------------------------|----------------------------|
| (1) Connecting rod assembly | (7) Rod connecting        | (14) Shift can assembly    |
| (2) Crank 1,2 and 3         | (8) Pin crank             | (15) Lower casing assembly |
| (3) Piston ring set         | (9) Gear adjustment       | (16) Propeller assembly    |
| (4) Coil ignition           | (10) Lever tilt 2         | (17) Reed valve assembly   |
| (5) Ignition coil assembly  | (11) Handle gear shift    | (18) Crank shaft assembly  |
| (6) Pin piston              | (12) Carburettor assembly | (19) Fuel pump assembly    |
|                             | (13) Pinion               | (20) Cowling bottom        |

**List 9 (See S. No. 212 of the Table)**

- |   |   |  |
|---|---|--|
| (1) Heat Exchangers for steam<br>sterilisation of soil in green house | (4) Automatic shading system                  | (7) Kool-cel pad system for<br>cooling                     |
| (2) Low draught horizontal axial<br>fans with energy efficient motors | (5) Drip irrigation system for green<br>house | (8) Ultra violet retardant fibre glass<br>/ plastic sheets |
| (3) Fogging machines  | (6) Humidifiers                               | (9) Flower grading machine                                 |

**List 10 (See S.No. 213 of the Table)**

1. All types of Refinery Process Units including distillation (CDU, VDU, Condensate Fractionator), thermal cracking (Delayed Coker, Visbreaker, Flexicoker), catalytic cracking (FCC, Hydrocracker), lube processing (Deasphalting, Dewaxing, Solvent Extraction), hydro-desulphurisation/hydrotreating (Naphtha, Diesel, VGO, ARDS, LC Fining, H. Oil), alkylation, isomerisation, catalytic reforming, treating (Merox, Amine), recovery (Propylene, Ethylene, Butane), synthesis (MTBE, TAME), gas concentration plant, bitumen blowing, sour water stripping, extraction (Pentane, Hexane, BTX).
2. All types of Hydrogen Generation, Recovery and Purification Plants, Sulphur Recovery Plants including Tail Gas Treatment Units, with associated components and equipments, including reactors (like shift, Claus, hydrotreater, CBA, desulphurizer), furnaces, steam reformers, waste heat boilers, condensers, Pressure Swing Adsorption (PSA) systems, incinerators, vessels, boilers, pumps, compressors, drivers, alongwith associated instrumentation & control systems and auxiliaries (skidded or otherwise).
3. All types of Utility Systems, including Nitrogen Systems comprising of generation, storage and vaporization plants, Flare Systems comprising of flare tips, stacks, seal drums, knockout drums and pumps, Refrigeration Systems comprising of compressors, refrigerant storage and heat exchangers, Emergency Power Systems comprising of generators, UPS and batteries, with component equipments and all systems auxiliaries, instrumentation & control systems.
4. All types of Process Subsystems, including Continuous Catalyst Regeneration Systems for Reformer, Recovery Plus Systems for Reformer, Power Recovery Train Systems for FCC, Feed Nozzles for FCC, Vapour Recovery Systems, Cryogenic Systems for LPG either supplied separately or as a whole, with component equipments, drivers, instrumentation & control systems, and auxiliaries.
5. All types of Water Handling & Treatment Systems, including sea water intake systems comprising of sea water band screens, Desilting systems for still basin, Sea Water filtration/Chlorination Systems, Desalination plants, Cooling Water Towers, Demineralization plants, Condensate Polishing Systems, Deaerators and Potable Water Systems, and all component equipments, vessels, pumps, vapourisers, condensers, filters, eductors, heat exchangers, drivers, screens, framing structures, gates, instrumentation & control systems, activated carbons, ion exchange resins, resin traps, additive injection systems and auxiliaries (skidded or otherwise)
6. All types of Effluent Solids/Liquids/Gaseous Processing, Handling, Control, Abatement and Disposal Systems, including plate interceptors, dissolved air floatation devices, skimmers, hydrocyclones, clarifiers, chemical dosing systems, acid treatment and biological treatment systems, Spent Caustic Neutralisation Systems and Sewage Filtration/Treatment Systems, with component equipments, instrumentation & control systems.
7. All types of Air Handling Systems and Equipments, including plant/instrument air compressors, FD/ID fans, blowers, dehumidifiers, pneumatic systems, mixers, dryers, intake filters, vents, silencers, cyclones, stacks, manifolds, ducts, with drivers, auxiliary seal/lube/control oil systems, instrumentation & control systems.
8. All types of Fired Heaters and Boilers, with radiant coils and sections, transfer line assemblies, convection coils and sections, cross over/jump over pipes, fittings, tube sheets, tube supports, refractory materials, structural steel supports, casings, stacks, dampers, soot blowers, ducting systems, gas/oil/dual burner assemblies, burner tiles, waste heat boilers (WHB), steam generators, economizers, air/fuel preheat systems, FD/ID fans, fuel gas/oil skids, and including LPG vaporizers, steam superheaters, heat recovery steam generators, electric heaters, FCC flue gas coolers, steam reformers, CO boilers, circulating fluidised bed boiler, auxiliary boilers, process interheaters, thermal reactors, thermal incinerators, coke feeders, limestone feeders, ESP/baghouse filters, alongwith associated instrumentation & control systems, including burner lighting, flame detection and burner management systems.
9. All types of Compressors, including axial, centrifugal, diaphragm, reciprocating, rotary screw and sliding vane type compressors, for gas, air, hydrocarbon and all special services including FCC Power Recovery Trains (PRT), LPG vapour return blowers, with drivers of motor or steam turbine or expansion turbine or engine or gas turbine or hydraulic turbine types, speed governor systems, seal/lube/control oil systems (skidded or otherwise), gear assembly, bearings, barring gears, clutch, couplings, intercoolers, after coolers, suction filters, instrumentation & control systems including vibration monitoring anti surge control, inlet guide vane control, sequencer control, control panel and machine condition monitoring systems.

10. All types of Heat Exchangers, including shell and tube, double pipe, kettle, plate welded plate, high pressure (breech lock), Armstrong and brazed types, with plain or fin or High Flux or U tubes for cooling intercooling, trim cooling, chilling, condensing, crystallizing, heating, vaporizing or reboiling services, with tubes, tube sheets, head assemblies, shells, flanges, bolts and nuts, gaskets, baffles, tie rods, instrumentation and control systems.
11. All types of Air Cooled Exchangers, for cooling, intercooling, trim cooling, chilling and condensing services, with plain/finned tubes, of carbon steel, admiralty brass, alloy steel, stainless steel, monel or titanium or other materials, with fans, fan drivers, structural steel support frameworks, instrumentation and control systems, anti vibration systems.
12. All types of Agitators and Mixers, including static, jet, dilution types, motor drivers, aeration systems, with instrumentation and control systems.
13. All types of Filters, Screens and Strainers, including backwash, bucket, carbon, cartridge, duplex, pressure / mechanical, rotary, drum, sand, sock/bag, vacuum types, and special FCC net bottoms catalyst filters, screens, strainers, demisters and sea water clarifiers, with instrumentation and control systems.
14. All types of Vacuum Producing Equipments, including ejectors, educators, venturies, with instrumentation and control systems.
15. All types of Materials Separation systems, including cyclones, centrifuges, coalescers, dust collectors, electrostatic precipitators, oily water separators, flocculators, and specialized systems of Crude Oil Desalters, Reactor Cyclones and Regenerator Cyclones for FCC, third Stage Separators and Fourth Stage Cyclone Separators for FCC, with vessel internals, grids, distributors, supports, instrumentation and control systems.
16. All types of Materials Transporting Equipments, including loading and unloading arms and racks, gantries, dispatch tanks, loading / transfer pumps, hydraulic systems, weigh bridges, Diesel shunters, feed or injection or spray nozzles, skimmers, soot blowers, with instrumentation and control systems, including load cells and metering stations.
17. All types of Electrical Equipments including switchyard equipments, transmitters, relays, solar power systems, including solar panels, batteries and charger, phase shift monitors, motor or steam turbine generators, protection relays for generators, auxiliary seal/lube/control oil systems, actuators, annunciators, lighting masts, lighting fittings, panels, batteries and battery chargers, bus ducts, all types of cables including power/instrument/compensating/fibre optic/coaxial/control cables, cable joints, capacitors, distribution boards, fittings, substations, grounding/neutral resistors, heat tracing systems including insulation, microprocessor based process controllers, local control stations, motor control centres, power control centres, HT/LT motors, shock eliminators, HT/LT switch gears, transducers, HT/LT transformers, UPS and variable speed drivers over current protection devices, instrumentation and control systems including load distribution and management systems and auxiliaries, (skidded or otherwise).
18. All types of Materials Handling Equipments including belt or pneumatic conveyors, ducts, hoists, bucket or jib cranes, (with or without gangways), pipe and hoses, funnels, hoppers, disengaging lock hoppers, catalyst addition pots, valves and sampler devices, bagging, weighing and bag stitching systems, weigh bridges, buoy systems for crude oil receipt, pipeline and manifolds with valves, fenders, mooring aids, laser docking systems, product tanker loading facilities, with associated equipments, instrumentation and control systems, and auxiliaries.
19. All types of coke handling and storage equipments, including coke crushers, coke cutting systems, coke drum unheading devices, coke drum switching systems, coke conveyors, stackers and reclaimers, silos/hoppers, dust abatement systems, belt weighers, Sulfur Handling and Storage Equipments and Sulphur Granulation or Flaking or Prilling Systems with associated equipments, instrumentation and control systems and auxiliaries.

20. All types of Product Filling Systems, including LPG bottles filling machines and bitumen drum filling machines, and associated equipments, instrumentation and control systems and auxiliaries.
21. All types of injections and Dosing Packages, for Injection or metering or dosing of chemicals, additives, inhibitors, odourisers, oxygen scavengers, biocides, chlorine, polymers, caustic, acids, emulsifiers, antifoams or antifoulants, with their component equipments, like drums, tanks, pumps, instrumentation and control systems, auxiliaries (skidded or otherwise).
22. All types of Pumps, including API or non-API, centrifugal, diaphragm, in-line, jockey, vertical, booster, barrel, gear, Sundyne, screw, ram, reciprocating or submersible types, single stage or multistage types, for petroleum crude or intermediate products or petroleum products and byproducts, water including sea water and boiler feed water, chemicals, slops or sludge services, liquid booster for LPG (cryogenic), with motor or steam turbine or hydraulic turbine or diesel engine drivers, and instrumentation and control systems, auxiliaries, including seals flushes, gear boxes, water cooling harnesses and lube oil consoles.
23. All types of Tanks and Storages, including plate materials, flanges, fasteners, nozzles, fittings and other components for assembly/construction/erection at site, and instrumentations, including relief, breather, and rim vent valves, nitrogen blanketing systems, roof drain pipings, rim seals, flame arrestors and automatic tank gauging systems, for oil, hydrocarbon (petroleum crude, products, byproducts, intermediate and blend components), water, chemicals, slops, sludge storage in either cone, fixed, floating, dome or internal floating roof configurations, solids storage in silos, bins or hoppers and LPG/propylene/ethylene/propane/butane storage in spheres, bullets or cryogenic tanks, and instrumentation and control systems.
24. All types of Columns, either supplied separately or together, comprising of grids, screens, distributors, nozzles and their supports/fasteners and accessories, for services like absorption, desorption, stripping, fractionation, distillation, splitting, stabilization, extraction, washing or scrubbing services, and column internals comprising of trays either bubble, jet, multi downcorner (MD), sieve or valve trays, or either random or structured type packings, and their appurtenances, instrumentation and auxiliaries.
25. All types of Vessels and Drums, either supplied separately or together, comprising of shells, heads, internals, grids, screens, demisters, coalescers, boots, distributors, packing and their supports/fasteners and accessories, for storage, separation, reaction, mixing, decoking, degassing, flashing, draining, blow down, desuperheating, drying, sealing, receiving, surge and interface controlling services, and their appurtenances, instrumentation, insulation and auxiliaries.
26. All types of Reactors, either supplied separately or together, comprising of shells, heads, catalysts, support materials, grids, screens, demisters, coalescers, distributors, packings and supports/fasteners and accessories, for carrying out cracking (FCC Reactor and Spent Catalyst Stripper), coking (Coke Drums), visbreaking, hydrotreating, hydro desulphurization, hydrocracking, catalytic reforming (Platformer), shift, sulphur (Claus), adsorption (CBA, PSA), oxidizing, treating (Mercox), regenerating (FCC Regenerator/Combustor), desulphurising reactions, spray and mixing nozzles and their appurtenances, instrumentation and auxiliaries.
27. All types of Instrumentations, including various types of level/pressure/density/temperature/flow instruments, detectors, level/pressure/draft/temperature gauges, capacitance/level/limit, proximity switches, transmitters, annunciators, controllers, converters, transducers, temperature sensor assemblies, load cells, orifice assemblies, rotameters, pitot tubes, venturies, meter runs, control/metering panels, pneumatic/motorised/hydraulic/piston actuators, recorders, solenoid operated valves, transmitters, thermocouples, temperature elements, sight glasses, amplifiers, annubars, barriers / isolators, all types of flow meters, custody transfer meters, meter provers, density meters, electromechanical/magnetic/nuclear/radar/ultrasonic level indicators, weighing and bagging systems and test equipments for testing and calibration of above instruments.

28. All types of Transmitters and Monitors, including electronic transmitters for measurement of level, pressure, flow speed, temperature and weight, and monitoring systems for ambient air, fugitive emissions, pipelines, speed, stack emissions and vibration.

29. All types of Control Equipments, including ball/butterfly/gate/globe/needle/plug/bellow sealed type control valves, shutdown valves, self actuating, solenoid, on/off, fast acting quarter turn, pressure regulating, breather and pressure/vacuum relief valves, pilot operated safety valves, and valves for specialised services, such as catalyst addition systems and lock hopper control systems.

30. All types of Control Hardware and Software Systems, including Distributed Control Systems (DCS), Emergency Shutdown Systems (ESD), Programmable Logic Controllers (PLC), Security and Access Systems, Terminal Automation Systems, Advanced Process Control (APC) Systems with Real Time Optimizer (RTO), Supervisory Control and Data Acquisition (SCADA) Systems, and Refinery Information Management System (RIMS) with operator panels, computers, data loggers, interfaces, relay cabinets, engineering controls, large display screens, microwave transmission and receiver equipments, logic multipoint recorder/multiplexers, and their hardware and software.

31. All types of Fire and Gas Detection Systems, consisting of LEL/fire/smoke/UV/gas/IR/toxic detectors, panels, cables, weather protection housing, junction boxes, detector cards, cabinets, calibration equipments, beacons and lights, and their hardware, and software.

32. All types of Pipes, Tubes and Hoses, including clad, coated, lined, made of carbon steel, low temperature carbon steel, alloy steel, stainless steel, GRP, copper, aluminium HDPE, PP, fibre glass, monel incolloy, titanium or any other materials, and other in seamless or welded construction, for all applications fields joint coating materials, with instrumentation and control systems like pipeline surge relief systems, auxiliaries, painting and insulation.

33. All types of Pipe Fittings, including elbows, connectors, tees, pipe fabrication accessories, spargers, nozzles, plugs, packing glands, rings, flanges, gaskets, supports, pads, manifolds, siphons, shock absorbers, struts, fasteners, mitre/long radius/short radius bends, sockolets, weldolets, spray nozzles, graylock fittings, swagelock/compression fittings, insulating kits, special steam traps, liquid float traps, bellows, flexible hoses, couplings, vent silencers, and speciality items like Teflon sliders, standpipe expansion joints, spring supports/hangers, scraper tees, pipeline and manifolds with valves, cleaning/scraping/monitoring pigs, pig launcher, pig receiver and pig detection system, cathodic protection system with sacrificial anodes and CP monitoring system, with instrumentation and auxiliaries.

34. All types of valves, including ball, butterfly, check, diaphragm, gate, double disc or knife gate, globe bellow sealed globe, jacketed, plug, through conduit type valves, with manual/gear/motor/hydraulic operations, for oil, water, steam, hydrocarbon, chemical, cryogenic, subsea, nitrogen blanketing and thermic fluid services, and specialised services valves, like FCC butterfly valves, Cooker switch valves, standpipe slide valves, flue gas divertor valves, pressure reducing station systems, pipeline and manifolds and riser tie-in manifolds.

35. All types of Gaskets and fasteners, including anchor/foundation/structural bolts, flanges, studs, nuts, washers, and metallic/soft/spiral wound gaskets and O-rings.





36. all types of Structural Steels, Materials and Plates including carbon steel/LT carbon steel/alloy steel/stainless steel plates, bars, rolled sections, tubular sections, HYSD bars, dampers, prefabricated trestles, pipe bridges with pre-installed pipes, loading platforms, steel A frames, blast proof doors, steel tubulars, seamless and welded, special steel piles, dolphins, low, medium and high strength steel, fasteners, and special application refractory/copalite/sulphide resistant quick setting cements.
37. All types of ferrous or non-ferrous pre-fabricated/semi-fabricated, Plant Structures, including pipe racks, supporting frames, trestles, pipe bridges with pipes pre-installed and pre-insulated.
38. All types of Analyzers, either on-line or off line, for measurement of H<sub>2</sub>S, Oxygen, NO<sub>x</sub>, SO<sub>x</sub>, CO<sub>2</sub>, CO, hydrocarbon, dew point, density, conductivity, pH, combustible gases, oil in water, vapour pressure, silica, sodium, distillation, flash point, moisture, viscosity and smoke point, and analyzer sampling systems/cubicles, analyzer houses with sample conditioning systems, sample probes/sensors, tubings, HAVC systems, calibration gases cylinders and Drager tubes.
39. All types of Laboratory Equipments, including sampling, quality control and analytical equipments for testing and measurement of various petroleum crude/products/by products quality parameters, and including sample collection equipments, gas/ion chromatograph, CFR engines for octane and cetana number, pulse NMR, spectrophotometers of different types, distillation equipment systems, analyzer management systems and laboratory information management systems, with instrumentation, auxiliaries, hardware and software.
40. All types of Safety and Fire Fighting Equipments, for safety of personnel and plant and machinery including fire suits, fire monitors, Q.B. bulbs, spray nozzles, ambient air monitors, heat and flame resistant clothings, portable extinguishers, deluge skid systems, explosimeters, rupture discs, fire fighting systems, fire tenders, foam systems with foam storage and monitor, transport and booms, snorkels, sprinkler systems, breathing air apparatus, fire proofing materials for passive fire protection of steel structures and oil spill protection booms, with auxiliaries.
41. All types of Communication Equipments, including cables, bone mikes, frequency synthesizers, meteorological instruments, microwave transmission and receiving equipments, public address systems, intrinsically safe walkie-talkies, UHF/VHF multi-channel communication systems, radio telemetry systems, with remote telemetry units, portable units and PC based master telemetry units and antenna systems.
42. Initial charge of all types of catalysts, deslocants, zeolites, activated carbons, clay molecular sieves, used in refining and processing of petroleum crude, petroleum products and by-products.
43. Software Support Systems, including training simulation systems, electronic documentation systems, CAD stations, data tapes, operation/maintenance/safety manuals, scanners, plotters, printers, software including licenses, specifications, drawings, technical literature, and their hardware and software.
44. Special Maintenance Systems, including hydro-jetting tools, pneumatic torque wrenches, EOT/mobile cranes, hoists, grinders, high pressure cleaning systems, induction bending machines, auto welding machines, various welding equipments like girth welding, vertical flux cord, bottom saw, four-side edge preparation, angle rolls, rolling and levelling machines, sky climbers, hot tapping machines, bolt tensioners, high pressure test pumps, tube bundles pullers, tube nippers, ultrasonic leak detectors, machine condition monitoring systems and associated sub-assemblies, vibration analysers and computerized alignments systems.
45. Sub-assemblies, tools, accessories, protective coating/paint materials, stores, spares, materials, supplies, consumables for running, repairing or maintenance of the goods specified in this List.

**List 11 (See S. No. 217 of the Table)**

- |  |  |   |
|--|--|---|
| (1) Hot mix plant batch type with electronic controls and bag type filter arrangements more than 120 T/hour capacity | (8) Mechanical broom with blower   | (16) Hydraulically operated self propelled soil boring equipment with casing pipes for deep earth anchore |
| (2) Electronic paver finisher (with sensor device) for laying bituminous pavement 7 m size and above                 | (9) Toll collection and traffic control equipment  | (17) Mobile concrete pump placer of 90/120 CU.M/HR capacity   |
| (3) Slip form/fixed form paverfinisher for laying concrete pavement  | (10) Electronic Total station instrument for topographic survey                              | (18) Automatic asphalt extraction equipment   |
| (4) Surface dressing equipment (self propelled) (chips spreader)   | (11) Global Positioning System (GPS) Instrument  | (19) Fully automatic, hydraulically operated, pre-cast segment moulds                                     |
| (5) Slurry seal machine for filling up cracks in roads   | (12) Stone crushing (cone type) plants   | (20) Hydraulic gantry crane of 100 tonnes capacity for launching truss                                    |
| (6) Kerb laying machine  | (13) Concrete Batching plants 50 cum/hr or more  | (21) Skid steer loaders   |
| (7) Mobile bridge inspection unit  | (14) Hydraulically operated self propelled piling rig with accessories                       |   |
|  | (15) Hydraulically operated rough terrain self propelled 100 tons crane with telescopic boom |   |

**List 12 (See S. No. 219 of the Table)**

**I. Kitchen Equipment:**

- (1) Dough Kneading Machine
- (2) Dough Dividing Machine
- (3) Electric Egg Boiler
- (4) Band Saw Machine for cutting Meat - Fish Bones etc.
- (5) Meat cutting slicing Machine / mincing and grinding machines (capacity 300 kg per hour)
- (6) Meat tenderising machine
- (7) Silver burnishing and polishing machine - small and large table ware
- (8) Commercial heavy duty can opener ( motorised )
- (9) Smoker
- (10) Salad dryer
- (11) Vertical chopper
- (12) Ice flakers
- (13) Waffle Irons
- (14) Bread buttering machine
- (15) Vertical cutter and mixer
- (16) Cold beverage dispenser as manufactured by jet spray
- (17) Planetary mixer - heavy duty
- (18) Dough sheeter and cutter
- (19) Sandwich unit
- (20) Butter portioning machine
- (21) Automatic glass washing machine
- (22) Chinese range with steamers
- (23) Vacuum packing machine
- (24) Glass dispenser
- (25) Vegetable preparation and washing machine
- (26) Conveyor table
- (27) Bread - Slicing Machine

- (28) Roll - in - Refrigeration (Absorption type) or Mini Bars
- (29) Baking ovens - gas fired
- (30) Ice cubes machines over 1000 lbs. capacity
- (31) Potato peelers
- (32) Potato chipper
- (33) Coffee machine
- (34) Dish washing machine
- (35) Glass washing machine
- (36) Luckon hot plate
- (37) Plate dispenser
- (38) Toaster - Conveyor type
- (39) Tilting frying table / pans
- (40) Tilting boiling pan
- (41) Croissant machine
- (42) Deck oven, Pizza oven, Convection oven and Rotating ovens, for baking
- (43) Microwave ovens
- (44) Banquet Trolley( Refrigerated)
- (45) Cocktail mixer / beverage mixer
- (46) Juice dispenser
- (47) Walk - in Coolers and Freezers
- (48) Gas Ranges with ovens / flame failure device
- (49) High pressure hot water cleaning jets
- (50) Puree machines
- (51) Deep fat frier with thermostatic control ( gas operated)
- (52) Deep fat frier with thermostatic control ( electrically operated)
- (53) Vegetable cutting / dicing machine

- (54) Energy saving steam cooker (double / quadruple type)
- (55) Hamburger machine, pastry rollers and noodle makers
- (56) Chocolate coating units
- (57) Pastamatic machines
- (58) Cold cut Slicer
- (59) Sausage making machine
- (60) Waste food disposal machine
- (61) Flambe trolley
- (62) Vegetable steam cooker
- (63) Draught beer dispensing unit
- (64) Chinese Banquet Silverware.
- (65) Infra Grill
- (66) Heavy duty salamander ( Gas / Electrical )
- (67) Blast Freezer.

**II. Health Club Equipment:**

- (68) Rowing machine
- (69) Orbital massagers
- (70) Abdominal board
- (71) Steam bath
- (72) Jogomatic motorised treadmill
- (73) Butter-fly machine
- (74) Slendertone shinning equipment
- (75) MSA Oxygen administrator complete with cylinder / face mask
- (76) Power Jog machine.

**III. Laundry Equipment:**

- (77) Dry cleaning presses
- (78) Extractors - 65 lbs.
- (79) Washer extractors ( more than 100 lbs.)
- (80) Multi-purpose presses and utility presses
- (81) Garment finisher

(82) Steam finishing boards

(83) Marking machines

(84) Water-spray gun and air vacuum system

(85) Vacuum unit

(86) Spotting Board

(87) Tumblers ( Hot oil operated/Steam heated) Dryer (Programmable)

(88) Flat work iron ( Hot oil operated / Steam heated)

(89) Steam Cabinet unit

(90) Shirt Unit ( i.e. Sleeves, Body and Bossom Collar and Cut Press, etc.)

(91) Upholstry processing machines viz. , perfect pleet machine and curtain stretcher.

(92) Puff iron

(93) Lint Separator.

**IV. House Keeping Equipment:**

(94) Industrial type vacuum cleaner

(95) Carpet shampooing machine

(96) Drying machine ( for carpets)

(97) Breathing apparatus for fire fighting

(98) Smoke / fire detectors & sprinkler systems

(99) Portable motorised deodoriser m/c.

(100) Fogging machine for fire fighting

(101) Papoosing machine

(102) Pile lifter

(103) Floor Polishing Machine, Floor Scrubbing Machines

(104) Insect and Pest Killers

**V. Energy Saving Devices:**

(105) Tinted glass

(106) Centrifugal Heat Reclaim Machine

(107) Double Effect Absorption Machine for Air-conditioning

**VI. Miscellaneous Equipment:**

(108) Locks and keys with emergency / construction keys and emergency Escape doors

(109) Gas Leak detector

(110) Digital temperature gauge

(111) 6600 Vol. 1100 volts high tension magger and insulation testing kit

(112) Magnetic locking devices sliding folding partition

(113) Ultra high pressure washer with accessories for coil cleaning drain cleaning

(114) Garbage incinerator with heat recovery unit ( steam hot water) boiler with accessories

(115) Sterasyl water filter for drinking water - or equipment using silver iodide

(116) Submerged swimming pool cleaner ( with motor of extra low voltage 40 volts) unit with accessories - complete set

(117) Fireman suit.

(118) Electronic liquid level indicator

(119) Hand Driers.

(120) Garbage compactizer

(121) Bottle Crusher

(122) Sauna Heaters and Saunas

**VII. Front Office Equipment:**

(123) Electric locking system

(124) Key cutting machine

(125) Computerised electronic vaults

**List 13 (See S. No. 239 of the Table)**

(1) Telephonic or telegraphic apparatus of the following description:

(a) switching apparatus for cellular mobile telephone service

(b) base station controllers

(2) Radio communication equipment including VHF, UHF and

microwave communication equipment with following description, namely, base transceivers stations (BTS)

(3) Network management stations

(4) Cellular repeaters

(5) BTS ancillary equipment

(6) Computers for billing and customer service

(7) Voice mail service hardware

(8) Short message service hardware

(9) Automatic call distribution system

(10) Transcoders

(11) BSS test equipment

**List 14 (See S. No. 240 of the Table)**

- |  |   |   |
|--|---|---|
| (1) Paging control terminal                          | (8) Automatic monitoring system         | (16) Radio communication test set                 |
| (2) Transmitter controller                           | (9) Network management & control system | up, spectrum analyser, field strength meter       |
| (3) Paging transmitter                               | (10) Integrated ACD/OAP system          | (17) POCSAG or FLEX encoders                      |
| (4) Link transmitter/link repeater, monitor receiver | (11) Isolators                          | (18) Global positioning system                    |
| (5) Link receiver                                    | (12) Cavity filters                     | (19) Simul cast controller                        |
| (6) N+1 Arbitrators for the above, hot standby panel | (13) Multicouplers                      | (20) Automatic call distribution equipment/system |
| (7) Combiners  | (14) Directional power sensors          |   |
|  | (15) Communication analysers            |   |

**List 15 (See S. No. 241 of the Table)**

- (1) Satellite communication equipment (other than customer premises equipment)
- (2) Network management system.

**List 16 (See S. No. 242 the Table)**

- |   |  |   |
|---|--|---|
| (1) Controllers -<br>(a) Network controller, Master controller<br>(b) Line conditioner for controller<br>(c) Computer for Network Management and Control System, System Watch<br>(d) Process Controller Frame, shelves<br>(e) Network Interface Module<br>(f) Voice Tone Module | (3) Antenna System equipment -<br>(a) Tower top pre-amplifier<br>(b) Bi-directional amplifier  | (5) Field Programming kit -<br>(a) Radio Interface Box (RIB),<br>(b) RIB to Repeater cable  |
| (2) Trunked Repeaters (multiple repeaters required for operations) -<br>(a) Repeaters, 350/400/800 MHz. , 20-100 Watts,<br>(b) Line Interface Module<br>(c) Repeater programming kit and cable<br>(d) Extender card, extender cable<br>(e) Re Module Packing kit                | (4) Voting Equipment -<br>(a) Voter cable<br>(b) Audio Revert option kit<br>(c) Receiver decoder module<br>(d) SMC main site RDM<br>(e) Receiver Voter Module<br>(f) Remote Multiplexor Module,<br>(g) Voter Diagnostic Module<br>(h) RDM test cable<br>(i) Satellite Power supply<br>(j) Central Demix module<br>(k) Voter Shell assembly | (6) Test Equipment –<br>(a) Spectrum Analyser,<br>(b) Field Strength Meter,<br>(c) Global Positioning System,<br>(d) Communication Analyser,<br>(e) Power Meter |
|   |  | (7) Billing System -<br>(a) Computer system,<br>(b) Data loggers  |

**List 17 (See S. No. 243 of the Table)**

(1) Router

(2) ATM Switch

(3) Frame Relay Switch

**List 18 (See S. No. 245 and 246 of the Table)**



- |  |  |  |
|--|--|--|
| (1) Singeing machine   | (18) Lab infra Red Drying Machine  | (33) Milling and scouring Machine  |
| (2) Yarn/ Fabric mercerising machine   | (19) Indigo dyeing range with/without sizing plant   | (34) Shearing and Polishing Machine  |
| (3) Continuous bleaching plant   | (20) Continuous weight reduction machinery through microwave technique   | (35) Kier Decatising/Decatising Machine  |
| (4) Fabric reversing machine   | (21) Computer colour matching equipment  | (36) Combined Contripress / Decatising machine   |
| (5) Fabric dyeing machine complete with dye kitchen & accessories              | (22) High speed computer control padding mangle  | (37) Blanket Fringing Machine  |
| (6) Wet fabric spreading and squeezing machine                                 | (23) Effluent treatment unit with biopaq reactor, activated sludge process, activated carbon, ultrafiltrations ozonisation facilities.   | (38) Raising/Brushing Machine  |
| (7) Relax drum/conveyer drying machine   | (24) Powder dot coating machine  | (39) Hydraulic Flat Paper Press/Continuous Hydraulic Flat Paper Press/Rotary Press                     |
| (I) Drying range   | (25) Laser engraver  | (40) Circular Knitting Machine   |
| (ii) Float dryers  | (26) Kier decatising/continuous decatising machine   | (41) Industrial Sewing machine   |
| (iii) Loop dryers  | (27) Combined contipress/decatising machine  | (42) Single needle bed drop feed lockstitch machine  |
| (iv) Drum dryers   | (28) Effluent treatment unit with automatic sensing devices, automatic controlled chemical dosing dissolved air floatation (DAF), reverse osmosis, sludge dewatering, decanters, ultrafilters, vacuum filters to deliver water for reuse | (43) Single needle lockstitch flat bed machine   |
| (v) Jet dryers   | (29) Pre-shrinking range for flat and Knitted goods  | (44) Single needle flat bed drop feed lockstitch machine with speed more than 3500 stitches per minute |
| (vi) Rapid dryers  | (30) Knit-tubular mercerising or bleaching-cum-mercerising machine   | (45) High speed twin needle feed lockstitch machine  |
| (8) Compacting Machine   | (31) Auto flame controlled, width controlled singeing machine for flat and Knitted fabrics   | (46) High speed two needle lockstitch machine  |
| (9) HTHP Hosiery yarn dyeing machine complete with dye kitchen and accessories | (32) Solvent scouring machine  | (47) Computerised multineedle lockstitch/chainstitch machine   |
| (10) Soft package winders (dye package winders)                                |  | (48) Single needle lockstitch machine with built in trimmer  |
| (11) Yarn drying machine   |  | (49) Blind stitch machine of various models  |
| (12) Automatic dye weighing and dispensing machine                             |  | (50) Single needle drop feed chainstitch machine   |
| (13) Volumetric/Gravimetric measurement liquid chemical station                |  | (51) Two needle chainstitch or lockstitch machine  |
| (14) Open width Tubular inspection machine                                     |  |  |
| (15) Lab dye preparation machine   |  |  |
| (16) Fastness testing equipment  |  |  |
| (17) Shrinkage testing equipment   |  |  |

- (52) Chainstitch overedging machine
- (53) Two or three needle chainstitch machine
- (54) Two thread chainstitch for high speed seaming and banding operation with gear driven pulled feed/compound feed of speed 3500 stitches per minute and above.
- (55) Safety stitch machine.
- (56) Fully fashioned high speed knitting machine.
- (57) Power driven flat bed knitting machine
- (58) Computerised flat bed knitting machine
- (59) Power operated flat lock/overlock machine
- (60) Linking machine
- (61) Loop making machine
- (62) Power driven socks knitting/gloves knitting machine.
- (63) Whole garment making machine (knitted)
- (64) Plain stitching machine with more than 3500 stitches per minute
- (65) Computerised plain stitching machine with more than 3500 stitches per minute
- (66) High speed needle feed two needle flat bed industrial sewing machine.
- (67) Sewing machine zig-zag flat bed
- (68) High speed multiple needle sewing machine
- (69) Class feed of the arm industrial sewing machine.
- (70) Button hole sewing machine
- (71) Button stitch sewing machine.
- (72) Elastic inserting machine (on a variety of garments)
- (73) Belt attaching machine
- (74) Zip attaching machine
- (75) Bar tacking machine
- (76) Hemstitch machine
- (77) Smoking machine
- (78) Computerised pattern maker/pattern grading/marker machine.
- (79) Power driven cloth cutting machine.
- (80) Band knife cutting machine
- (81) Collar turning and blocking machine and cuff turning and blocking machine.
- (82) Cuff press
- (83) New automatic collar turning machine
- (84) Automatic pocket weld sewing machine
- (85) Pocket creasing machine
- (86) Embroidery machine with 10 heads and above
- (87) Computerised embroidery machine
- (88) Computerised embroidery pattern making machine with plotter
- (89) Printing and curing machine
- (90) Quilting machine
- (91) Snap fasteners fixing machine and/or siwa thereof
- (92) Thread cleaning machine
- (93) Steam Press
- (94) Portable boiler for steam press
- (95) Steam Cabinet
- (96) Vaccum table
- (97) Fusing press
- (98) Dry to Dry cleaning machine
- (99) Stain/spot removing machine/gun
- (100) Automatic 25-needle shirring/smoking machine
- (101) Shirt folding machine
- (102) Form finisher
- (103) Collar contour trimmer
- (104) Spreading machine
- (105) Shoulder pad attaching machine.
- (106) Shrinkage controlling machines for knitting fabrics
- (107) Loopdrivers for tubular knitted fabrics
- (108) Mercerising machines for tubular knitted fabrics
- (109) Singeing machines for tubular fabrics.
- (110) Pile cutting machines for knitted fabrics
- (111) Rotating edging machine for fabric rolls
- (112) Conveyors for garments
- (113) Garment Calendering machine
- (114) Tie making machines
- (115) Labelling machines
- (116) Laying and cutting machines
- (117) Button and Rivet fixing machine and/or dies thereof
- (118) Auto fabric detwister
- (119) Weft straightening and calendering machine
- (120) Slit Opening Machine
- (121) Rotary/Flat bed screen printing machine
- (122) Curing/Polymerising machine
- (123) Continuous rope/open width washing machine
- (124) Lab Yarn dyeing machine
- (125) Lab dyeing machine

- (126) Lab pressing machine
- (127) Automatic cone winding machine with yarn splicer and auto doffing system
- (128) High speed warping machine with yarn tensioning, pneumatic suction devices and accessories
- (129) Shuttleless looms (air jet, water jet, rapier and projectile)
- (130) Drawing in machine
- (131) Beam knotting machines
- (132) Computer aided design system
- (133) Fully automatic grey fabric inspection machines with roll to roll winding having microprocessor recorder
- (134) Auto control type humidification plant
- (135) Colour matching computer
- (136) Carding Sets, for use in woollen textile industry
- (137) High speed Intersecting Rotary/Chain/Pin Drawing Sets/Gill Boxes
- (138) Rectilinear Combs
- (139) Draw Frame/Roving Frame/Automatic Rubbing Frame/Bobbiners/Finishers, for use in woollen textile industry
- (140) Ring frames from 60 MM Ring Dia and above, for use in woollen textile industry
- (141) Ring Frames with Siro Spinning attachment / Auto Doffers having maximum 75 MM Ring Dia, for use in woollen textile industry
- (142) Shearing, polishing and cropping machines
- (143) Step cleaner
- (144) Flax hackling machine
- (145) Drawing machine for Flax
- (146) Roving machine for Flax
- (147) Wet ring frame for Flax
- (148) Auto winding machine for Flax
- (149) Continuous spinning machines for Viscose Filament Yarn.
- (150) Digital electronic frequency inverters for spinning machines including control boards
- (151) Finishing oil metering pumps with relevant feed system
- (152) Metering gear pumps for Viscose
- (153) Portable systems for injection of pigments for viscose dope complete with stirred vessel, metering pumps, instruments and control panel
- (154) Precious metal spinnerettes including distribution plates (pre-spinnerette)
- (155) Spin bath degassing plant by flash evaporation
- (156) Spin bath backwash filtration system with candle filters
- (157) Continuous dissolving and homogenising system for viscose preparation
- (158) Contidisk filters for viscose
- (159) Spinbath heat exchanger in graphite

**List 19 (See S. No. 247, 249 and 250 of the Table)**

- (1). Land Seismic Survey Equipment and accessories, requisite vehicles including those for carrying the equipment, seismic survey vessels, global positioning system and accessories, and other materials required for seismic work or other types of Geophysical and Geochemical surveys for onshore and offshore activities
- (2) All types of Drilling rigs, jackup rigs, submersible rigs, semi submersible rigs, drill ships, drilling barges, shot-hole drilling rigs, mobile rigs, workover rigs consisting of various equipment and other drilling equipment required for drilling operations, snubbing units, hydraulic workover units, self elevating workover platforms, Remote Operated Vessel(ROV)
- (3)Helicopters including assemblies/parts
- (4) All types of Marine vessels to support petroleum operations including work boats, barges, crew boats, tugs, anchor handling vessels, lay barges and supply boats, Marine ship equipment including water Maker, DP system and Diving system
- (5) All types of Equipment/units for specialised services like diving, cementing, logging, casing repair, production testing, simulation and mud services, oil field related lab equipment, reservoir engineering, geological equipment, directional drilling, Stimulation, Coil Tubing units, drill stem testing (DST), data acquisition and processing, solids control, fishing(as related to downhole retrieval in oil field operations), well control, blowout prevention(BOP), pipe inspection including Non Destructive Testing, coring, gravel pack, well completion and workover for oil/gas wells including wireline and downhole equipment
- (6) All types of casing pipes, drill pipes, production tubing, pup joints, connections, coupling, kelly, cross overs and swages, Drive Pipes
- (7) All types of drilling bits, including nozzles, breakers and related tools
- (8) All types of oil field chemicals including synthetic products used in petroleum operations, oil well cement and cement additives, required for drilling, production and transportation of oil or gas
- (9) Process, production and well platforms for oil, gas and water injection including items forming part of the platforms and equipment required like process equipment, turbines, pumps, generators, compressors, primemovers, water makers, filters and filtering equipment, Telemetry, Telecommunication, Tele-Control and other material required for platforms
- (10) Line pipes for flow lines and trunk pipelines including weight-coating and wrapping
- (11) Derrick barges, Mobile and stationary cranes, trenchers, pipelay barges, cargo barges and the like required in the construction/installation of platforms and laying of pipelines
- (12) Single buoy mooring systems, mooring ropes, fittings like chains, shackles, couplings marine hoses and oil tankers to be used for oil storage and connected equipment, Tanks used for storage of oil, condensate, water, mud, chemicals and related materials
- (13) All types of fully equipped vessels and other units/equipment required for pollution control, fire prevention, fire fighting, safety items like Survival Craft, Life Raft, fire and gas detection equipment, including H<sub>2</sub>S monitoring equipment.
- (14) Mobile and skid mounted pipe laying, pipe testing and pipe inspection equipment
- (15) All types of valves including high pressure valves
- (16) Communication equipment required for Petroleum operations including synthesized VHF Aero and VHF Marine multi channel sets
- (17) Non-directional radio beacons, intrinsically safe walkie-talkies, directional finders, EPIRV, electronic individual security devices including electronic access control system
- (18) Specialized antenna system, simplex telex over radio terminals, channel micro wave systems, test and measurement equipment
- (19) X-band radar transponders, area surveillance system
- (20) Common depth point (CDP) cable, logging cable, connectors, geo-phone strings, perforation equipment and explosives

- |  |  |   |
|--|--|---|
| (21) Wellhead and christmas trees, including valves, chokes, heads spools, hangers and actuators, flexible connections like chocks and high pressure hoses, shut down panels | (22) Cathodic Protection Systems including anodes  | (24) Sub-assemblies, tools, accessories, stores, spares, materials, supplies, consumables for running, repairing or maintenance of the goods specified in this List |
|  | (23) Technical drawings, maps, literature, Data tapes, Operational and Maintenance Manuals required for petroleum operations |   |

**List 20 (See S. No. 253 of the Table)**

- |  |   |   |
|--|---|---|
| (1) Micromanipulators  | (9) E-Beam direct write system  | (17) Particle monitor / counter both air and liquid borne                 |
| (2) Molecular beam epitaxy system (MBE system)   | (10) Mask aligners  | (18) Automatic encapsulation system, Automatic marking / branding machine |
| (3) Chemical vapour deposition (CVD) system - Low pressure CVD (LP CVD) - Metal organic CVD (MO CVD) | (11) Mask inspection systems (comparators)  | (19) Clean room laminar flow air handling system                          |
| (4) High pressure oxidation systems  | (12) Wafer scribe or Wafer slicer or Wafer sawing machine or Wafer fractures or any combination thereof | (20) Ultra clean room equipment   |
| (5) Lithography systems  | (13) Die bonders or wire bonders or combination thereof   | (21) Ultra high purity demineralised water treatment plant                |
| (6) Direct step on wafers / steppers   | (14) Wafer sawing machine   | (22) PVDF welding and orbital welding machines                            |
| (7) X-ray lithography systems  | (15) Leak detection system  | (23) Ultra high pure (UHP) gas distribution system                        |
| (8) E-Beam mask making system  | (16) Clean room air showers   | (24) Toxic gas distribution / monitoring system                           |

**List 21 (See S. No. 254 of the Table)**

**(A) Dental equipment, namely:-**

- |   |  |   |
|---|--|---|
| (1) Air motor / turbine hand piece and control box with foot control , micromotors for dental applications                              | (8) Air turbine head / cartridges :- borden turbines - regular cartridge, borden turbines-silencer cartridge and quiet air turbines - compact miniature standard   | (12) Anaesthetic cartridges for dental use                            |
| (2) Air rotor / turbine complete with or without air compressor   | (9) Dental burrs of all varieties of various shapes and sizes - carbide, diamond or steel, Carbon Burrs with Titanium coating, Tungsten Burrs                      | (13) Body contoured self-adjusting electrically operated dental chair |
| (3) Dental engines, for laboratory work or for chair side clinical work on patients   | (10) Dental hand pieces, for - air motor, air turbine or drilling engines (clinical and laboratory) for filling, packing and condensation purposes and micromotors | (14) Equipment for chrome cobalt work                                 |
| (4) Dental operating lights and fibre optic lights  | (11) Endodontic instruments (root canal instruments), broshes, reamers and files, fillers / wideners and pluggers  | (15) Fibre optic light equipment with attachments for dental work     |
| (5) Ultrasonic dental cleaning system   |  | (16) Porcelain furnace  |
| (6) Ultrasonic scalers of all types   |  | (17) Sand blasting equipment for dental use                           |
| (7) Spot welders for dental use with auxiliary functions, outlet :- annealing jack, heat-treat tables, auxiliary cables or plug-in vise |  | (18) Vaccum investing equipment for dental castings                   |
|   |  | (19) Developing tarks for dental X-ray (automatic and ordinary)       |

**(B) Ophthalmic equipment, namely:-**

- |   |   |                                      |
|---|---|--------------------------------------|
| (1) Projection magnifier for contact lens inspection and verification | (5) Softometer for measurement of the base curve of soft contact lenses | (11) Corneal anesthesiometer         |
| (2) Radiuscope base curve (for measurement of contact lenses)         | (6) Contact lens lathes   | (12) Dark adaptometer                |
| (3) Contact lens thickness measuring gauge                            | (7) Contact lens polishing machines                                     | (13) Glare testing equipment         |
| (4) Stereozoom microscope for inspection of contact lenses            | (8) Ophthalmic operating lights and fibre optic lights                  | (14) Pantoscope                      |
|   | (9) Exophthalmometer  | (15) Cryo-lathe                      |
|   | (10) Ophthalmo dynamometer  | (16) Ophthalmic cryo equipment       |
|   |   | (17) CAM stimulator                  |
|   |   | (18) Roper hall foreign body locator |

**(C) Other medical equipment, namely:-**

- (1) High powered X-ray unit more than 50 KW with special attachments for paediatric patients, image intensifiers, TV system and cut film camera
- (2) Automatic electronic blood cell counter
- (3) Multi channel recorder for cardiac electrophysiology with computerised analysis system including facilities for memory
- (4) Equipment for computerised intra-operative mapping system
- (5) Operating table- electro hydraulic type
- (6) Operating lamps - shadowless
- (7) Immuno - fluorescence microscope with or without attached photo micrography set
- (8) Cryostat
- (9) Thermodyne
- (10) Ultramicrotome
- (11) Cardio-tachograph
- (12) Intensive care servo-controlled incubator
- (13) Open infant care system with servo control
- (14) Oxygen analyser
- (15) Apnea monitor



- |   |  |  |
|---|--|--|
| (16) Non-invasive continuous BP monitor                         | (44) High pressure, pulsing, electronic controlled autoclaves                      | (72) Tonometer   |
| (17) Transcutaneous oxygen monitor                              | (45) Anaesthesia apparatus   | (73) Photo-coagulator  |
| (18) 'Filter cartridge' of 'filter self rescuer'                | (46) Hypothermia machine   | (74) Lithotome   |
| (19) Portable intermittent traction machines                    | (47) Respirometer  | (75) Extracorporeal lithotriper  |
| (20) Burn therapy dressing soaked in protective gel             | (48) Pulmonary function test machines  | (76) Calibrated thermo compensated / thermostabilised anaesthetic vapouriser |
| (21) Cystoscope and colposcope                                  | (49) Capnograph-CO <sub>2</sub> meter blood gas - CO <sub>2</sub> meter gas to gas | (77) Foetal monitor  |
| (22) Urological X-ray examination table                         | (50) Oxygen blending mask  | (78) Bipolar coagulator and forceps  |
| (23) Bipolar angiography equipment                              | (51) Paediatric anaesthesia set  | (79) Electro-encephalography equipment                                       |
| (24) Electron microscope  | (52) Cautery proof cardioscopes with memory  | (80) Doppler carotid scanner   |
| (25) Rotary microtome   | (53) Dosemeter   | (81) Electromyography equipment and accessories thereof                      |
| (26) Billirubinmeter  | (54) Polystyrene phantoms  | (82) Cryosurgery equipment   |
| (27) Fluorescent microscope                                     | (55) Water phantom   | (83) Trans-cutaneous nerve stimulator  |
| (28) Phase contrast microscope                                  | (56) Mould room equipment (including styrofoam gatter)                             | (84) Filters for extra corporal circulation                                  |
| (29) Inverted microscope  | (57) Radiation field analyser  | (85) PET scanner   |
| (30) Caogulometer   | (58) Survey equipment (including neutron monitor )                                 | (86) Operating microscope for microsurgery                                   |
| (31) Daree gromel illuminator microscope                        | (59) Densitometer for film densitometry  | (87) Operating instruments for microsurgery                                  |
| (32) Densitometer   | (60) TLD (for internal dosimetry)  | (88) Cardio-vascular catheterisation lab equipment                           |
| (33) Tissue processor   | (61) Isotope calibrator  | (89) Automatic / laser multi image and multi format cameras                  |
| (34) Paediatric / neonatal laryngoscope                         | (62) Whole body human phantom  | (90) Bedside arrythmia analyser / monitor                                    |
| (35) Resuscitator other than compressed air breathing type      | (63) Angioscope for coronary angiography   | (91) High pressure contrast medium injector                                  |
| (36) O <sub>2</sub> blenders                                    | (64) Doppler equipment   | (92) Thermal printers, black/white for medical use                           |
| (37) Reinforced corrugated tubing                               | (65) Xeroradiographic equipment  | (93) Thermal printers, colour for medical use                                |
| (38) Automatic plasmapheresis equipment (blood cell separation) | (66) Urological X-ray examination unit   |  |
| (39) Gas failure alarms   | (67) Pressure injector with rapid serial changing unit                             |  |
| (40) Ultrasonic nebulisers                                      | (68) Computerised tread mill   |  |
| (41) Heat nebulisers  | (69) Vector cardiograph  |  |
| (42) Local analgesic spray                                      | (70) Polygraph   |  |
| (43) Non-re breathing valves                                    | (71) Phonocardiograph and systolic time interval equipment                         |  |

- (94) Optical disc recorders for medical image storage
- (95) Multichannel patient monitoring system upto three channels provided - (a) system has plug-in module option for any three parameters out of ECG, respiration, BP, pulse and temperature or (b) system has monitoring options for any three parameters out of ECG, respiration, BP, pulse, temperature as well as one or more out of arrhythmia, cardiac output, oxygen and carbondioxide saturation levels
- (96) Brain mapping system
- (97) Evoked potential system
- (98) Holter monitor system
- (99) X-ray tubes and tube inserts for X-ray equipment, CT and Cardiac more than 20/40 KW
- (100) Micro processor controlled high frequency X-ray generator more than 50 KW
- (101) Contrast medium injector with or without ECG trigger
- (102) Catheterisation cine film analyser
- (103) radiation protection equipment
- (104) Catherterisation table light (dentalite)
- (105) Air / power driven drills, saws and reamers
- (106) Automatic percutaneous lumbar disectomy, console and kits
- (107) Urodynamic study
- (108) Gamma counter
- (109) Cell counter
- (110) DC Defibrillator for external use
- (111) Suction catheter, Epidural catheter, thermodilution catheter
- (112) Manual skin grafting knife and its disposable blades
- (113) Electric dermatome (skin grafting knife) electrically operated (mains battery powered) and its disposable knife blades
- (114) Air driven dermatome (skin grafting knives) operated on compressed air and its disposable knife blades
- (115) Mesh graft dermatome for expanding skin grafts, disposable mesh graft carriers for the above
- (116) The following items required by spinal patients and other categories of physically handicapped people :-
- (a)chairs - folding wheel chairs with detachable arms and footrests, special light wheel chairs for easy handling, motorised wheel chairs, special purpose chairs for stairs climbing for tetraplegics and paraplegic workers (b) aids for disabled, namely, folding walking frames
- (c)aids to extend reach to pick up small items (with small magnet pick up)
- (d)specialised fixtures for orthopaedic and spastic, tetraplegics for manoeuvring and providing dexterity to fingers and wrist
- (e) turning beds for prevention of pressure sores
- (f) emulsion cushions for tetraplegics and working paraplegics to avoid pressure sores
- (117) Multichannel (more than 3 channels) cardiac monitoring system with / without central monitoring unit
- (118) Hyperthermia machine
- (119) Polypropylene mesh for hernia repair
- (120) Dental X-ray machine
- (121) Digital imaging system for face X-rays
- (122) Orthopantom ram (O.P.G.) X-rays for jaws
- (123) Jaw surgery equipment - (a) stryker saws (b) special titanium and tungsten carbide drill bits (c) jaw surgery instruments including special retractors, bone holders
- (124) ECG transtelephonic recorder / transmitter / recorder-cum-transmitter
- (125) Linear accelarator
- (126) Precision delivery device used for administration of insulin with penfill cartridges such as Insulin Pen

**(D) Other goods, namely:-**

- |   |   |   |
|---|---|---|
| (1) Dental implant  | (a)chrome cobalt / nickel chrome / porcelain bond metal / low fusing technique alloy  | (7) Dental X-ray film - intra-oral / extra- oral / panoramic / occlusal     |
| (2) Dental cements  |   | (8) Dental porcelain of all types   |
| (3) Impression materials of all types/ alginate / rubber base / silicon base              | (b) dental crowns and artificial teeth  | (9) Acrylics for dental use - denture base material heat cure and cold cure |
| (4) Dental fillings and non precious metal for crown / bridge / and cast partial denture- | (5) Gutta- percha points- dental silver amalgam                                       | (10) Waxes of all types for dental use                                      |
|   | (6) Dental investment of all types / phosphate bond / gypsum bond / plaster and stone |   |

**List 22 (See S. No. 256 of the Table)**

- |  |  |   |
|--|--|---|
| (1) Capacitors (excluding paper capacitors and power capacitors)                                 | (8) Ceramic / Magnetic cartridges and stylus   | (18) (i) Saw filters (ii) Ceramic filter/trap (iii) Delay lines (iv) CRT socket (v) Spark gap (vi) Degaussing coil                                |
| (2) Ferrite parts including memory cores and ferrite magnets                                     | (9) Air cored and Ferrite cored transformers   | (19) Fibre optics and other optoelectronic parts and devices namely, Couplers, Attenuators, Connectors, Splicers, Multiplexers and Demultiplexers |
| (3) Switches with contact rating less than 5 amperes at voltage not exceeding 250 Volts AC or DC | (10) Microphones /Microphone cartridges  | (20) Passive optical parts, namely, Microlens and splitters, Micropositioners, Optical filters and gratings and Phase plates                      |
| (4) Connectors   | (11) RF/IF coils, Inductance coils, Peaking coils, Tuning coils  | (21) Special purpose optical fibres, namely, polarisation holding fibres, plastic fibres and large core fibres                                    |
| (5) Magnetic -Heads (all types)  | (12) Antennas  | (22) Electron guns  |
| (6) Loud speakers (cone type)  | (13) Relays of contact rating upto 7 amperes   | (23) Liquid crystal displays  |
| (7) Deflection parts, namely:-   | (14) EHT cables  |   |
| (i) EHT/LOT/FBT transformers   | (15) Level meters/level indicators/ tuning indicators/ peak level meters/ battery meter/ VC meters / Tape counters |   |
| (ii) Line driver transformers  | (16) Tone arms   |   |
| (iii) Deflection coil / yoke   | (17) Microwave passive parts   |   |
| (iv) Linearity coil  |  |   |
| (v) Width coil   |  |   |

**List 23 (See S. No. 257 of the Table)**

- |   |   |   |
|---|---|---|
| (1) (a) Laser rods - Neodymium: YAG, Neodymium : Glass, Ruby, Erbium : YAG, TI : A1203, Alexandrite, HO : YAG | (h) Dye cells and laser dyes  | (6) Spectroscopic grade pure gases viz., Xenon, Krypton, Fluorine, Argon  |
| (b) Helium- Neon Laser Tubes  | (i) Thin film polarisers for visible, near IR region                        | (7) Vacuum pumps of capacity upto 20 litres per minute  |
| (c) Semi-conductor visible lasers   | (j) Electro- optic switches for visible, near IR and 10.6 micrometer region | (8) Quartz and Special glasses  |
| (d) Dielectric coated mirrors for visible , near IR & 10.6 micrometer region                                  | (k) Flash lamps (Xenon, Krypton)  | (9) Non linear crystals   |
| (e) Hard dielectric coated optics including thin film polarisers, calcite polarisers and Beam splitters       | (l) Arc lamps (Krypton)   | (10) Electro- optic and Acousto-optic switches  |
| (f) ZnSe mirrors, ZnSe lenses and ZnSe windows  | (m) Second harmonic generation crystals                                     | (11) Special materials, namely, High purity gases, Kovar, Alumina and Zirconia fibres, Recrystallised Alumina Tubes, Optical polishing materials, Optical cleaning material, Dyes and Pitch for optical polishing |
| (g) Gratings and prisms   | (2) Energy storage capacitors   | (12) Optical filters  |
|   | (3)Thyratrons   |   |
|   | (4) Photodetectors and photomultipliers                                     |   |
|   | (5) Metering needle valves and pressure indicators                          |   |

**List 24 (See S. No. 258 of the Table)**

- |   |   |   |
|---|---|---|
| (1) Television cameras with portable field video recorders (professional grade) | (6) Special effect generators for fading and superimposing of text and graphics | (11) Professional grade photographic cameras of all formats   |
| (2) Audio recording equipment   | (7) Time base correctors / Frame synchronisers                                  | (12) Dark room equipment including enlargers  |
| (3) Table top post production video editing machines                            | (8) Broadcast standard 3-D computer graphic systems                             | (13) Computer control editing machines  |
| (4) Four source editing controllers to control editing machines                 | (9) Professional grade colour video monitors                                    | (14) Spares and accessories of above mentioned equipment as permitted by the Deputy Principal Information Officer in the Press Information Bureau in the Ministry of Information and Broadcasting |
| (5) 8-channel video mixer/switches  | (10) Portable lighting equipment with lamps for shooting in low light situation |   |

**List 25 (See S. No. 309 of the Table)**

- |   |  |  |
|---|--|--|
| <b>(A) Wireless Apparatus and accessories -</b>   | (4) Grid Dip Oscillator, Radio Frequency Interference Filter, Balun Transformer, SWR bridge or reflectometer, Morse reader or Noise bridge | (2) Toroidal cores, quartz crystals, relays, rotatory switches, ferrite beads  |
| (1) HF, VHF, or UHF transreceiver (combination of transmitter and receiver) meant for amateur frequencies with accessories in assembled or kit form | (5) Antenna with or without feeders/Antenna rotators for amateur frequencies   | (3) Variable condensers, air-dielectric type   |
| (2) VHF/VHF or VHF/UHF Repeater (combination of transmitter and receiver) meant for amateur frequencies with accessories in assembled or kit form   | (6) Digital Frequency counter (upto 600 MHz) with accessories  | (4) Precision capacitors (fixed type) value (s) between 1pF to 5000 pF   |
| (3) Transvertor for amateur frequencies in assembled or kit form  | <b>(B) Parts -</b>   | (5) Spare nicad cells or pack, as required or used with thermionic valves or vacuum tubes or toroidal cores (in the case of hand held transreceiver) |
|   | (1) Transistors, diodes, integrated circuits/ chips, thermionic valves or vacuum tubes   | (6) Slow motion tuning mechanism with or without dials.  |

**List 26 (See S. No. 326 of the Table)**

- |                                  |  |  |
|----------------------------------|--|--|
| (1) Chlorine                     | (7) Oligo-poly iso cyanate ethyl-acetate solution                    | (12) Coloured nylon-12                     |
| (2) Helium                       | (8) Colouring ink for fibre  | (13) Elongated polyethylene tape           |
| (3) Silicon tetra chloride       | (9) Binder of polyurethane or vinyl chloride-vinyl acetate copolymer | (14) Polyester tape                        |
| (4) Germanium tetra chloride     | (10) UV resin-1/ UV resin-2  | (15) Nylon thread                          |
| (5) Phosphorous oxychloride      | (11) Nylon-12 granules / chips for sheath / loose tube               | (16) Polyethylene cord                     |
| (6) Sulphur hexa flouride oxygen |  | (17) Biaxilly oriented nylon tape          |
|                                  |  | (18) Silica tube / rod, other than preform |

**List 27 (See S. No. 326 of the Table)**

- |  |                            |  |
|--|----------------------------|--|
| (1) E-glass yarn / roving for FRP                                    | (4) Acrylated monomers     | (7) Zinc soap of long fatty acid mixture |
| (2) UV resin for FRP   | (5) Photoinitiator         | (8) Modified polypropylene               |
| (3) Complex high molecular weight resin in acrylate solution for FRP | (6) Tert butyl perbenzoate | (9) Ethylene acrylic acid (EAA)          |

**List 28 (See S. No. 340 of the Table)**

- |                                      |   |   |
|--------------------------------------|---|---|
| (1) Calorimeter for semen analysis   | (6) Tuberculin syringe                    | (10) Sheath for French mini straws                    |
| (2) Phase contrast microscope        | (7) Programmed biological freezer         | (11) Cryo containers above 60 litres capacity         |
| (3) Photometer for semen analysis    | (8) Automatic semen analyser              | (12) Liquid nitrogen tankers above 500 litre capacity |
| (4) Ovucheck pregnancy detecting kit | (9) Semen straws (French medium and mini) |   |
| (5) Freeze drier                     |   |   |

**List 29 (See S. No. 348 of the Table)**

- |   |  |   |
|---|--|---|
| (1) Australia Antigen RIA kit   | (11) Heart valve prosthesis including valve frames   | (22) Ostomy products (Appliances) for managing Colostomy, Ileostomy, Ureterostomy, Ileal Conduit Urostomy Stoma cases such as bags, belts, adhesives seals or discs or rolls adhesive remover, skin barriers micropore surgical tapes, bag closing clamps karaya seals paste or powder, irrigation sets, plastic or rubber faceplates, flanges, male or female urinary incontinency sets, skin gels, in parts or sets |
| (2) Cardiac catheters with guidewires   | (12) Nebulized humidifier  | (23) Oxygenator   |
| (3) Clips for aneurysms and clips applying forceps in Neuro-Surgery   | (13) Hydrocephalus shunts  | (24) Plastic disposable 3-way connectors  |
| (4) Cardio vascular sutures, including sternum steel sutures  | (14) Hyper-baric oxygen chamber  | (25) Portable intermittent positive, pressure breathing apparatus   |
| (5) Cardiovascular special instruments, namely:- (i) Coronary perfusion cannulae (ii) Electrical or gas operated sternal cutter (iii) High pressure stop cocks and connectors for pressure recording (iv) Vascular bull-dog clamps (v) Vascular clamps (vi) Vascular needle holders (vii) Vascular scissors straight or angled (viii) Vascular tissue forceps | (15) Fogarty and embolectomy catheters   | (26) Pulmoflator  |
| (6) Compressed air breathing apparatus complete   | (16) Implantable cardiac pacemakers  | (27) Respirators including ventimeters  |
| (7) D.C. Defibrillators for internal use and pace makers  | (17) Intra-arterial catheters and guidewires and material for intervention radiology   | (28) Sengstaken tubes   |
| (8) Laryngeal Mask / Endotracheal Tube  | (18) Intra-cardiac patches   | (29) Tracheostomy tubes   |
| (9) Haemodialysors  | (19) Nebulizers (excluding ultrasonic nebulizers and heat nebulizers)  | (30) Ventilator used with anaesthesia apparatus   |
| (10) Heart lung machine   | (20) Omayya reservoirs for intraventricular investigation / therapy  |   |
|   | (21) Operating sets for Percutaneous Nephrostomy and Percutaneous removal of kidney stones with continuous irrigation and suction with ultrasonic Lithotrite, etc. |   |



- (31) Vascular grafts
- (32) Tracheostomy tube of plain PVC, Low pressure PVC, Red Rubber Plain, and Red Rubber cuffed
- (33) Various types of Cardiac Catheters including balloon tipped, double Lumen and PTCA catheters, balloon dilatation catheters and Endomyocardial biopsy forceps
- (34) Disposable and non-disposable cannula for aorta, vena cavae and similar veins and blood vessels and cannula for intra-corporal spaces
- (35) Programmer for pacemaker
- (36) Ancillaries for blood component therapy required for the treatment of cancer, namely, Y type blood solution recipient set, Transfer pack 1000 ml. and 300 ml., disposable pheresis bowl 225 ml. and 373 ml., wasting harness with bypass, and waste bags
- (37) AIDS (Acquired Immune Deficiency Syndrome) test kits, Enhanced luminescence analysers for AIDS, Hepatitis and other Analyses
- (38) Iridium wire
- (39) Anti-HLA sera (AB-CDR)
- (40) T.P.H.A. Kits and AIDS diagnostic kits
- (41) Gamma knife
- (42) Bone Marrow Transplant Equipment including silastic long standing intravenous catheters for Chemotherapy
- (43) Cell Separator
- (44) Pressure Transducer and Pressure Amplifier
- (45) Cell Saver
- (46) Continuous Ambulatory Peritoneal Dialysis Fluid
- (47) Craniotome (Pneumatic and Electric Equipment) and Drills
- (48) Binocular Loupes
- (49) Intra Aortic Balloon Pump
- (50) Remote After Loading Brachy Therapy Equipment
- (51) Dosimetry System
- (52) Cell Saver Equipment
- (53) Cell Washer
- (54) Thawer Equipment for Blood Warming
- (55) Mammography Unit
- (56) O<sub>2</sub> Concentrator
- (57) Ventricular Assist Device
- (58) Pace Maker
- (59) Activated Clot Time Machine
- (60) Cobalt Therapy Unit
- (61) Colour Doppler Ultrasound Scanner
- (62) SPECT Gamma Camera
- (63) Deep Therapy Unit
- (64) Cardiac and Vascular Angiography System including Digital subtraction Angiography
- (65) Pulse Oximeter
- (66) Blood Gas Analyser (including cartridges, if any), Sodium Potassium Analyser, Auto Analyser for enzymes, drug levels and biochemical investigations, or a combination of two or more of the aforesaid
- (67) Ultrasonic Surgical Aspirator
- (68) Intra Cranial Pressure Monitoring Equipment
- (69) Radio Therapy Simulator
- (70) Treatment Planning System
- (71) Angiography Contrast Agent
- (72) Image Intensifier
- (73) Magnetic Resonance Imaging System
- (74) Surgical Laser
- (75) Electro Hydraulic Operating Table for Cardio Throacic and Neuro Surgery
- (76) Implants for pain relief and bladder control
- (77) Artificial electronics larynx instruments
- (78) Ventilators other than those used with anaesthesia
- (79) Digital Video EEG System
- (80) Instruments and implants for severely physically handicapped patients and joints replacement and spinal instruments and implants including bone cement
- (81) Small portable pumps used for giving slow infusion of anti-cancer drugs or thalassaemic drugs
- (82) Fibre optic endoscopes including , Paediatric resectoscope / audit resectoscope, Peritoneoscopes, Arthroscope, Microlaryngoscope, Fibreoptic Flexible Nasal Pharyngo Bronchoscope, Fibreoptic Flexible Laryngo Brochoscope , Video Laryngo Brochoscope and Video Oesophago Gastroscope, Stroboscope, Fibreoptic Flexible Oesophago Gastroscope.

**List 30 (See S. No. 351 of the Table)**

**Ophthalmic equipment, namely :-**

- |   |   |  |
|---|---|--|
| (1) Ophthalmoscope-Direct/Indirect  | (12) Intraocular lenses/<br>Keratoprosthesis / orbital implants   | (25) Automatic refractometer or<br>lensometer / projection lensometer<br>or a combination of the aforesaid |
| (2) Ophthalmic/Xenon Arc  | (13) Diathermy equipment  | (26) Complete refraction unit with<br>phoropter / projection - chart                                       |
| (3) Flurescein Angiography<br>Equipment including Fundus<br>Camera  | (14) Synoptophore   | (27) Ophthalmic hydraulic chair  |
| (4) Ultrasonic Equipment (A scan/<br>Pacchy meter)  | (15) Silicone Sponges/ rubber /<br>bands, for Retinal Detachment<br>Surgery                               | (28) Low visual aids and sets<br>(telescopic glasses)  |
| (5) Microsurgical needles, cannulas,<br>blades, trephine blades, membrane<br>peelers, diathermy probes, vitreous<br>cutters, atraumatic needles and<br>sutures, intraocular scissors and<br>forceps | (16) Vitrectomy equipment   | (29) Colour vision testing<br>equipment  |
| (6) Tonometer (Schiotz/<br>Applanation / Pneumo)  | (17) Phaco-emulsification system  | (30) Photoelectric keratoscope and<br>thermokeratoscope  |
| (7) Retinoscope streak/ spot  | (18) Visual field recording<br>equipment  | (31) Pseudo-isochromatic chart<br>book / Ishiare   |
| (8) Operating glasses (2X, 4X, 6X)/<br>Binomag  | (19) Ocular electro physiological<br>testing equipment  | (32) Slit lamp biomicroscope /<br>photo slit lamp  |
| (9) Gonioscope, 3 mirror lens,<br>special lenses for laser delivery,<br>special diagnostic lenses (14D,<br>20D, 90D), Endo lens   | [Electroretinography /<br>Electroculography / Visually<br>evoked response equipment<br>(ERG/EOG and VER)] | (33) Surgical operating zoom<br>microscope with closed circuit TV<br>camera                                |
| (10) Sterilisers (high speed /<br>ethylene)   | (20) Keratometer / Automatic<br>Keratometer   | (34) Surgical operating microscope<br>manual   |
| (11) Specular microscope with<br>monitor and recorder   | (21) Prism bars   | (35) Argon / krypton laser   |
|   | (22) Laser Interferometer   | (36) Yag laser, excimer laser or<br>diode laser  |
|   | (23) Pacchymeter - optical /<br>electronic  |  |
|   | (24) Aspiration - irrigation<br>equipment   |  |

**List 31 (See S. No. 352 of the Table)**

**ENT equipment, namely :-**

- |  |   |  |
|--|---|--|
| (1) Otoscope   | (10) Sinoscopes 0 <sup>o</sup> , 30 <sup>o</sup> , 70 <sup>o</sup> , 120 <sup>o</sup><br>(2.6 mm and 4 mm diameter) | (19) Video Processor   |
| (2) Impedance Audiometer                                 | (11) Instruments for Endoscopic<br>Sinus Surgery  | (20) Video Cassette Recorders used<br>along with the Video Endoscope |
| (3) BERA (Brain Evoked Response<br>Audiometry)           | (12) CCD Camera, Monitor, VCR<br>to fit with Sinoscopes   | (21) ENT Burrs   |
| (4) Speech Audiometer                                    | (13) Cochlear Implants and<br>equipment for performing Cochlear   |  |
| (5) Surgical Operating Microscope                        | (14) Voice Protheses  |  |
| (6) Fresnel's glasses                                    | (15) Blom Singer Voice Protheses  |  |
| (7) Magnifying Operating Glasses<br>(Magnifying Loupes)  | (16) Electronic Larynx  |  |
| (8) Microsurgical instruments for<br>all Ear surgeries   | (17) Sigel's Speculum   |  |
| (9) Sialistic sheet used for<br>Tympanoplasty operations | (18) Microlaryngeal instruments   |  |

**List 32 (See S. No. 353 of the Table)**

- |   |   |  |
|---|---|--|
| (1) 12 (+/- 1) mm Laparoscope<br>(Single incision)  | (8) Machine for Gas Insufflator<br>with Gas Tubing Spare<br>Carbondioxide (CO <sub>2</sub> ) Hose Pipe and<br>a Gauge | (14) Falope Rings  |
| (2) Falope Ring - applicator single<br>incision (for two rings) and<br>procedure instruction manual, kit<br>containing guide and loader and<br>cleaning brush | (9) Dual incision applicator Two<br>rings   | (15) 6-8 mm Laparoscope (double<br>puncture)   |
| (3) 12 (+/- 1) mm Trocar (including<br>piston type) with spare washers for<br>sleeve and canulae and cleaning<br>brush  | (10) Trocal and Cannula 6-8 mm<br>with valves gas stopcock  | (16) Scissors 34-37 cm   |
| (4) Fibre Optic Light Cable   | (11) Probe 34-37 cm   | (17) Suction Cannula 34-37 cm  |
| (5) Bulbs, fuse lamps, Adapter for<br>Fibre Optic Light<br>Cable/Laparoscope  | (12) Verres Needle (4" and 5 <sup>1</sup> / <sub>2</sub> " )  |  |
| (6) Carbondioxide (CO <sub>2</sub> ) cylinder<br>with pneumoperitoneum apparatus  | (13) Minilight source with<br>accessories consisting of :-  | Notes:-  |
| (7) Light Source  | (a) 6 volts rechargeable battery  | (A) Item Nos.(6), (7) and (8) may<br>be imported separately or in<br>combinations as dual control<br>assembly.       |
|   | (b) AC battery charger  | (B) Item Nos. (1) and (2) may be<br>separate or in combination, when in<br>combination, it is called<br>Laparocator. |
|   | (c) AC power supplier 220 volts   |  |
|   | (d) Inter-connection assembly   |  |
|   | (e) Convertor   |  |

**List 33 (See S. No. 354 of the Table)**

- |   |   |   |
|---|---|---|
| (A) (1) Braille writers and braille writing instruments   | (6) Geometrical aids like combined Graph and Mathematical Demonstration Board, Braille Protractors, Scales, Compasses and Spar Wheels     | (9) Specially adapted clocks and watches  |
| (2) Hand writing equipment Braille Frames, Slates, Writing Guides, Script Writing Guides, Styli, Braille Erasers    |   | (B) (1) Orthopaedic appliances falling under heading No.90.21 of the First Schedule |
| (3) Canes, Electronic aids like the Sonic Guide   | (7) Electronic measuring equipment, such as calipers, micrometers, comparators, gauges, gauge blocks Levels, Rules, Rulers and Yardsticks | (2) Wheel chairs falling under heading No. 87.13 of the First Schedule              |
| (4) Optical, Environmental Sensors  |   | (C) Artificial electronic larynx and spares thereof                                 |
| (5) Arithmetic aids like the Taylor Frame (arithmetic and algebra types), Cubarythm, Speaking or Braille calculator | (8) Drafting, Drawing aids, tactile displays  | (D) Artificial electronic ear (Cochlear implant)                                    |

**List 34 (See S. No. 369 of the Table)**

**Thermal Projects :**

- |                                  |                       |
|----------------------------------|-----------------------|
| 1. Kahalgaon Stage II – 1500 MW  | 8. Maithon-1000 MW    |
| 2. North Karanpura STPP– 2000 MW | 9. Anta-1300 MW       |
| 3. Barh STPP – 2000 MW           | 10. Kawas – 1300 MW   |
| 4. Cheyyur – 1500 MW             | 11. Auraiya-1300 MW   |
| 5. Hirma – 3960 MW               | 12. Gandhar-1300 MW   |
| 6. Krishnapattanam – 1500 MW     | 13. Cuddalore-1000 MW |
| 7. Pipavav – 2000 MW             | 14. Narmada-1000 MW   |

**Hydel Projects :**

1. Koel-Karo (Jharkhand ) – 710 MW
2. Teesta-V (Sikkim) – 510 MW
3. Koldam (Himachal Pradesh)– 800 MW
4. Parvati (Himachal Pradesh) – 800 MW

**List 35 (See S. No. 370 of the Table)**

1. Tarapur Atomic Power Plants –3 and 4 (Maharashtra) – 1000 MW
  2. Kudankulam (Tamil Nadu) – 2000 MW
  3. Kaiga – 3 and 4 (Karnataka) – 440 MW
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F.No.334/ 1 /2001-TRU