

**ITEMIZED LIST OF WATER AND SANITATION ITEMS
IN ACCORDANCE WITH PARAGRAPH 8 OF
THE SECURITY COUNCIL RESOLUTION 1302 (2000)**

AS OF 10 AUGUST 2000

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I PIPES and FITTINGS

(Excluding all items that may be notifiable under resolution 1051)

**I-A(GEWS) UPVC Pipes & fittings
for network maintenance**

| No | Description |
|-----------|--|
| 1 | Supplying U.P.V.C pipes (315) mm dia. of tyton-joint with rubber rings. 10 bar |
| 2 | Ditto but (280)mm. dia. 10 bar |
| 3 | Ditto but (225)mm. dia. 10 bar |
| 4 | Ditto but (160)mm. dia. 10 bar |
| 5 | Ditto but (110)mm. dia. 10 bar |
| 6 | Ditto but (90)mm. dia. 10 bar |
| 7 | Supplying U.P.V.C pipes (400) mm dia. of tyton-joint with rubber rings. 6 bar |
| 8 | All socket tees complets with eubber rings. 10 bar for dia (315x315)mm |
| 9 | Ditto for dia (315x280)mm |
| 10 | Ditto for dia (315x225)mm |
| 11 | Ditto for dia (315x160)mm |
| 12 | Ditto for dia (315x110)mm |
| 13 | Ditto for dia (280x280)mm |

| No | Description |
|----|--|
| 14 | Ditto for dia (280x225)mm |
| 15 | Ditto for dia (280x160)mm |
| 16 | Ditto for dia (280x110)mm |
| 17 | Ditto for dia (225x225)mm |
| 18 | Ditto for dia (225x160)mm |
| 19 | Ditto for dia (225x110)mm |
| 20 | Ditto for dia (225x90)mm |
| 21 | Ditto for dia (160x160)mm |
| 22 | Ditto for dia (160x110)mm |
| 23 | Ditto for dia (160x90)mm |
| 24 | Ditto for dia (110x110)mm |
| 25 | Ditto for dia (110x90)mm |
| 26 | Ditto for dia (90x90)mm |
| 27 | End socket bend complete with rubber rings (10) bar as below: |
| 28 | 0° bend for 315 mm dia |
| 29 | 45° bend for 315 mm dia |
| 30 | 22½° bend for 315 mm dia |
| 31 | 90° bend for 280mm dia |
| 32 | 45° bend for 280 mm dia |
| 33 | 22½° bend for 280 mm dia |
| 34 | 90° bend for 225 mm dia |
| 35 | 45° bend for 225mm dia |
| 36 | 22½° bend for 225 mm dia |
| 37 | 90° bend for 160 mm dia |
| 38 | 45° bend for 160mm dia |
| 39 | 90° bend for 110 mm dia |
| 40 | 45° bend for 110mm dia |
| 41 | Supplying (1000) mm dia UPVC socket and spigat pipe with rubber joint,according to the requirements of DIN 8061, 8062,and 19532 for working pressare of 6 bar |
| 42 | to (900)mm dia |
| 43 | to (800)mm dia |
| 44 | to (700)mm dia |
| 45 | to (600)mm dia |
| 46 | to (500)mm dia |
| 47 | to (400)mm dia |
| 48 | to (300)mm dia |
| 49 | to (250)mm dia |
| 50 | to (200)mm dia |
| 51 | to (150)mm dia |
| 52 | to (100)mm dia |
| 53 | to (80)mm dia |
| 54 | to (50)mm dia |
| 55 | Supplying (200 x 100) mm dia UPVC tee junction 76 bar |
| 56 | Ditto (250 x 100)mm dia |
| 57 | Ditto (300 x 100)mm dia |
| 58 | Ditto (100 x 500)mm dia |

| No | Description |
|----|---|
| 58 | Ditto (100 x 600)mm dia |
| 59 | Ditto (200 x 250)mm dia |
| 60 | Ditto (500 x 400)mm dia |
| 61 | Ditto (500 x 600)mm dia |
| 62 | Stoppers (100) mm dia |
| 63 | Ditto (150)mm dia |
| 64 | Heavy duty covers manholes 550 mm dia |
| 65 | Ditto but (600 x 900) mm dia |
| 66 | Galvanized steel pipe (6m)and diameter (160)mm ventilating columns with the fittings up |
| 67 | Ditto but (200)mm diameter |
| 68 | UPVC tee janchon pipes (400 x 100)mm dia |
| 69 | Ditto (200 x 150)mm dia |
| 70 | Ditto (250 x 150)mm dia |
| 71 | Ditto (300 x 150)mm dia |
| 72 | Ditto (400 x 150)mm dia |
| 73 | Ditto (500 x 150)mm dia |
| 74 | Ditto (600 x 150)mm dia |
| 75 | Ditto (150 x 150)mm dia |

I-B (BWSA)

UPVC pipes and fittings For network maintenance

UPVC PIPES AND FITTINGS FOR SEWERS AND SHALL COMPLY WITH THE REQUIREMENTS OF (DIN 8061 – 8062) - WALL THICKNES TO COMPLY WITH DIN 8062 . ALL PIPES AND FITTINGS SHALL HAVE RUBBER RING JOINTS + 10% ADDITIONAL QUANTITY OF RUBBER RING JOINTS :

| No | PIPES |
|----|-----------------|
| 76 | Diameter 250 mm |
| 77 | = 315 mm |
| 78 | = 400 mm |
| 79 | 500 mm |
| 80 | 600 mm |

| No | FITTINGS |
|----|--------------------------------|
| 81 | T Socket – Spigot 250 110 mm |
| 82 | T Socket – socket 250 110 mm |
| 83 | T Socket - Spigot 315 110 mm |
| 84 | T S socket – socket 315 110 mm |
| 85 | Saddle 250 110 mm |
| 86 | Saddle 315 110 mm |

I-C (GWSA) POLYETHYLENE PIPES AND FITTINGS

| No | Description |
|-----|---|
| | A- polyethylene pipes should be working under 12 bars pressure all pipes should be supplied to our stores in a form of bundles not than (30) m each quantities as follows : |
| | NOMINAL SIZE |
| 87 | 1- 13 mm |
| 88 | 2- 19 mm |
| 89 | 3- 25 mm |
| 90 | 4- 37 mm |
| 91 | 5- 50 mm |
| 92 | 6- 63 mm |
| | B- UP.V.C saddle : |
| 93 | -(90) mm dia with brass ferrule suitable to connect polyethylene line pipe mentioned in Item (a) above of (13) mm dia |
| 94 | - Ditto but to connect (19)mm dia |
| 95 | - Ditto but to connect (25)mm dia |
| 96 | -(110) mm dia with brass ferrule suitable to connect polyethylene line pipe mentioned in item (a) above of (13) mm dia |
| 97 | - Ditto but to connect (19)mm dia |
| 98 | - Ditto but to connect (25)mm dia |
| 99 | - Ditto but to connect (37)mm dia |
| 100 | -(160) mm dia with brass ferrule suitable to connect polyethylene line pipe mentioned in item (a) above of (13) mm dia |
| 101 | - Ditto but to connect (19)mm dia |
| 102 | - Ditto but to connect (25)mm dia |
| 103 | - Ditto but to connect (37)mm dia |
| 104 | - Ditto but to connect (50)mm dia |
| 105 | -(225) mm dia with brass ferrule suitable to connect polyethylene line pipe mentioned in item (a) above of (13) mm dia |
| 106 | - Ditto but to connect (19)mm dia |
| 107 | - Ditto but to connect (25)mm dia |
| 108 | - Ditto but to connect (37)mm dia |
| 109 | - Ditto but to connect (50)mm dia |
| 110 | - Ditto but to connect (63)mm dia |
| 111 | C- Tapping tool complete with ratcet , (3) cutter for p.v.c , saddle adaptor, pipe adaptor and portable tool bol with hexogen key and lever for tapping saddle branch dia as follows : (16 - 25) mm (32 - 40)mm (50 - 63) mm |

I-D (GEWS) Ductile Iron pipes & fittings

| No | Description |
|-----|--|
| 112 | Supplying (1200) mm dia. Ductile iron socket and spigot pipe class (K9) of tyton joint with rubber rings , according to the international standard (ISO – 2531) . |
| 113 | Ditto (1000) mm dia. |
| 114 | Ditto (900) mm dia. |
| 115 | Ditto (800) mm dia. |
| 116 | - Ductile iron double flanged bend with flanged socket and spigot a- 1200 mm dia - bend 90 ⁰ b- 1000 mm dia - bend 90 ⁰ c- 900 mm dia - bend 90 ⁰ d- 800 mm dia body - bend 90 ⁰ |
| 117 | - Ductile iron express double socket bends complete with rubber rings and stainless steel bolts /nuts with washers :- A- 1200 mm dia a.1- bend 45 ⁰ a.2- bend 22 ^{1/2} ⁰ B- 1000 mm dia b.1- bend 45 ⁰ b.2- bend 22 ^{1/2} ⁰ C- 900 mm dia c.1- bend 45 ⁰ c.2- bend 22 ^{1/2} ⁰ |
| 118 | Ductile Iron all flanged tee complete as per specified A- 1200 mm dia . body a.1-1200 mm dia . branch a.2-1000 mm dia . branch a.3-900 mm dia . branch a.4-800 mm dia . branch B- 1000 mm dia . body b.1-1000 mm dia . branch b.2-900 mm dia . branch b.3-800 mm dia . branch C- 900 mm dia . body c.1-900 mm dia . branch c.2-800 mm dia . branch D- 800 mm dia . body d.1- 800 mm dia . branch d.2- 700 mm dia . branch d.3- 600 mm dia . branch d.4- 500 mm dia . branch |
| 119 | - Ductile iron double socket (express) tapers with rubber rings and stainless steel bolts /nuts with washers :- a- (1200 x 1000)mm dia |

| No | Description |
|-----|---|
| | b- (1000 x 900)mm dia c- (1000 x 800)mm dia d- (900 x 800)mm dia e- (800 x 700)mm dia f- (800 x 600)mm dia |
| 120 | Supplying (600) mm dia. Ductile iron socket and spigot pipe class (K9) of tyton joint with rubber rings , according to the international standard (ISO – 2531) . |
| 121 | Ditto (500) mm dia. |
| 122 | Ditto (450) mm dia. |
| 123 | Ditto (400) mm dia. |
| 124 | Ditto (350) mm dia. |
| 125 | Ditto (300) mm dia. |
| 126 | Ditto (250) mm dia. |
| 127 | Ductile Iron double flanged beds with flanged socket express and spigot A- 600 mm dia - bend 90 ⁰ B- 500 mm dia - bend 90 ⁰ C- 450 mm dia - bend 90 ⁰ D- 400 mm dia - bend 90 ⁰ E- 350 mm dia - bend 90 ⁰ |
| 128 | - Ductile iron express double socket bends with rubber rings and stainless steel bolts /nuts with washers :- A- 600 mm dia a.1- bend 45 ⁰ a.2- bend 22 ^{1/2} ⁰ B- 500 mm dia b.1- bend 45 ⁰ b.2- bend 22 ^{1/2} ⁰ C- 450 mm dia c.1- bend 45 ⁰ c.2- bend 22 ^{1/2} ⁰ D- 400 mm dia d.1- bend 45 ⁰ d.2- bend 22 ^{1/2} ⁰ E- 350 mm dia e.1- bend 45 ⁰ e.2- bend 22 ^{1/2} ⁰ F- 300 mm dia f.1- bend 90 ⁰ f.2- bend 45 ⁰ f.3- bend 22 ^{1/2} ⁰ G- 250 mm dia g.1- bend 90 ⁰ |

| No | Description |
|-----|--|
| | g.2- bend 45 ⁰ g.3- bend 22 ^{1/2} ⁰ |
| 129 | - Ductile iron double socket (express) tapers complete with rubber rings and stainless steel bolts /nuts with washers :- a- (600 x 500)mm dia b- (600 x 450)mm dia c- (600 x 400)mm dia d- (500 x 450)mm dia e- (500 x 400)mm dia f- (500 x 350)mm dia g- (450 x 400)mm dia h- (450 x 350)mm dia I- (450 x 300)mm dia j- (400 x 350)mm dia k- (400 x 300)mm dia l- (400 x 250)mm dia m- (350 x 300)mm dia n- (350 x 250)mm dia o- (350 x 200)mm dia p- (250 x 200)mm dia w- (250 x 150)mm dia y- (200 x 150)mm dia |
| 130 | Ductile Iron all flanged tee complete with flanged socket and spigot A- 600 mm dia . body a.1-600 mm dia . branch a.2-500 mm dia . branch a.3-450 mm dia . branch a.4-400 mm dia . branch a.5-350 mm dia . branch a.6-300 mm dia . branch a.7-250 mm dia . branch B- 500 mm dia . body b.1-500 mm dia . branch b.2-450 mm dia . branch b.3-400 mm dia . branch b.4- 350 mm dia . branch b.5- 300 mm dia . branch b.6- 250 mm dia . branch C- 450 mm dia . body c.1-450 mm dia . branch c.2-400 mm dia . branch c.3- 350 mm dia . branch c.4- 300 mm dia . branch c.5- 250 mm dia . branch D- 400 mm dia . body d.1- 400 mm dia . branch d.2- 350 mm dia . branch d.3- 300 mm dia . branch d.4- 250 mm dia . branch |
| 131 | d.4- 250 mm dia . branch |

| No | Description |
|-----|--|
| | E- 350 mm dia . body e.1- 350 mm dia . branch e.2- 300 mm dia . branch e.3- 250 mm dia . branch F- 300 mm dia . body f.1- 300 mm dia . branch f.2- 250 mm dia . branch G- 250 mm dia . body g.1- 250 mm dia . branch |
| 132 | Ductile Iron flanged branch on double socket express tee complete with rubber rings and stainless steel bolts / nuts with wassher : A- 600 mm dia . body a.1-100 mm dia . branch B- 500 mm dia . body b.1-100 mm dia . branch b.2-150 mm dia . branch C- 450 mm dia . body c.1-100 mm dia . branch c.2-150 mm dia . branch D- 400 mm dia . body d.1- 80 mm dia . branch d.2- 100 mm dia . branch d.3- 150 mm dia . branch E- 350 mm dia . body e.1- 80 mm dia . branch e.2- 100 mm dia . branch e.3- 150 mm dia . branch F- 300 mm dia . body f.1- 80 mm dia . branch f.2- 100 mm dia . branch f.3- 150 mm dia . branch G- 250 mm dia . body g.1- 80 mm dia . branch g.2- 100 mm dia . branch g.3- 150 mm dia . branch |
| 133 | Supplying (1200) mm dia. Ductile iron socket and spigot pipe class (K9) of tyton joint with rubber rings , according to the internat:onal standard (ISO – 2531) . |
| | Ditto (150) mm dia. |
| | Ditto (100) mm dia. |
| | Ductile Iron all flanged tee complete with flanged socket and spigotas below: A- 200 mm dia . body 200 mm dia . branch 150 mm dia . branch 100 mm dia . branch B- 150 mm dia . body 150 mm dia . branch 100 mm dia . branch C- 100 mm dia . body |

| No | Description |
|-----|--|
| | 100 mm dia . branch |
| 134 | <p>Ductile Iron flanged branch on double socket express tee complete with rubber rings and stainless steel bolts / nuts with wassher :</p> <p>A- 200 mm dia . body 80 mm dia . branch 150 mm dia . branch 100 mm dia . branch 200 mm dia . branch</p> <p>B- 150 mm dia . body 80 mm dia . branch 100 mm dia . branch 150 mm dia . branch</p> <p>C- 100 mm dia . body 80 mm dia . branch 100 mm dia . branch</p> |
| 135 | <p>Ductile iron express double socket bends with rubber rings and stainless steel bolts /nuts and washers :</p> <p>A- 600 mm dia bend 90⁰ bend 45⁰ bend 22^{1/2}⁰</p> <p>B- 500 mm dia bend 90⁰ bend 45⁰ bend 22^{1/2}⁰</p> <p>C- 450 mm dia bend 90⁰ bend 45⁰ bend 22^{1/2}⁰</p> |
| 136 | <p>- Ductile iron double socket (express) tapers complete with rubber rings and stainless steel bolts with nuts and washers :</p> <p>a- (200 x 150)mm dia b- (200 x 100)mm dia c- (150 x 100)mm dia d- (100 x 80)mm dia</p> |

I-E(BWSA): Ductile iron pipes and fittings

| | |
|--|---|
| <p>SUPPLY OF SPIGOT AND SOCKET DUCTILE IRON PIPES ACCORDING TO ISO STANDARD 2531 TYPE K=9 WITH THE FOLLOWING TECHNICAL SPECIFICATIONS:</p> <p>1- INTERNAL PRESSURE PROOF TEST = 50 BARS 2- WALL THICKNESS SHOULD BE ACCORDING TO THE FOLLOWING FORMULA : $e = 5.8 + 0.003 ND$ WHERE , e = WALL THICKNESS IN (mm) ND = NOMINAL DIAMETER (mm) 3- LENGTH OF EACH PIPE SEGMENT SHOULD BE 6 METERS 4- PIPES OF PUSH JOINT. 5- PIPES SHOULD HAVE ASPEN CEMENT MORTAR INSIDE LINING AND OUT SIDE BITUMEN COATING.</p> | |
| 137 | A- DUCTILE IRON PIPES WITH NOMINAL DIAMETER OF 100mm INCLUDING RUBBER JOINTS. |
| 138 | B- DITTO. WITH NOMINAL DIAMETER OF 150 mm INCLUDING RUBBER JOINTS. |
| 139 | C- DITTO. WITH NOMINAL DIAMETER OF 200 mm INCLUDING RUBBER JOINTS. |
| 140 | D- DITTO. WITH NOMINAL DIAMETER OF 300 mm INCLUDING RUBBER JOINTS. |
| 141 | E- DITTO. WITH NOMINAL DIAMETER OF 400 mm INCLUDING RUBBER JOINTS. |
| 142 | F- DITTO. WITH NOMINAL DIAMETER OF 500 mm INCLUDING RUBBER JOINTS. |
| 143 | G- DITTO. WITH NOMINAL DIAMETER OF 600 mm INCLUDING RUBBER JOINTS. |
| 144 | H- DITTO. WITH NOMINAL DIAMETER OF 700 mm INCLUDING RUBBER JOINTS. |
| 145 | I- DITTO. WITH NOMINAL DIAMETER OF 800 mm INCLUDING RUBBER JOINTS. |
| 146 | J- DITTO. WITH NOMINAL DIAMETER OF 900 mm INCLUDING RUBBER JOINTS. |
| 147 | K- DITTO. WITH NOMINAL DIAMETER OF 1000 mm INCLUDING RUBBER JOINTS. |
| <p>DUCTILE IRON PIPES ACCORDING TO ISO STANDARD 2531 WITH THE FOLLOWING TECHNICAL SPECIFICATIONS:</p> <p>a- FLANGES SHOULD BE OF TYPE NP 16. b- FITTINGS SHOULD HAVE A CEMENT MORTAR INSIDE LINING AND OUT SIDE BITUMEN COATING. c- HYDROSTATIC LEAK- TIGHTNESS TEST PRESSURE SHOULD BE NOT LESS THEN 25 BARS. d- WALL THICKNESS SHOULD BE ACCORDING TO THE FOLLOWING FORMULA : $e = 7 + 0.014 ND$ FOR TEES. $e = 6 + 0.012 ND$ FOR OTHER FITTINGS. - SCOPE OF SUPPLY THE SCOPE OF SUPPLY INCLUDE ALL NECESSARY RUBBER JOINTS, GASKETS, WASHERS, BOLTS , NUTS ANDGLANDS. ALL SOCKET JOINTS SHALL BE MECHANICAL JOINTS.</p> | |
| 148 | a- DOUBLE FLANGE BEND -90 ° - Nominal Diameter (mm) : 100 |
| 149 | b- DITTO . Nominal Diameter (mm): 150 |
| 150 | c- DITTO Nominal Diameter (mm) : 200 |

| | |
|-----|--|
| 151 | d- DOUBLE SOCKET BEND --90 ° - Nominal Diameter (mm) : 100 |
| 152 | e- DITTO Nominal Diameter (mm): 150 |
| 153 | f- DITTO Nominal Diameter (mm) : 200 |
| 154 | g- DOUBLE FLANGE BEND 45° Nominal Diameter (mm) :100 |
| 155 | h- DITTO Nominal Diameter (mm) : 150 |
| 156 | i- FLANGE SPIGOT Nominal Diameter (mm) : 100 |
| 157 | j- FLANGE SOCKET Nominal Diameter (mm) : 150 |
| 158 | k- ALL SOCKET TEE 150X100 mm |
| 159 | l- ALL SOCKET TEE 100X100 mm |
| 160 | m- DOUBLE FLANGE REDUCER 150X100 |
| 161 | n- FLANGE SPIGOT Nominal Diameter (mm) :300 |
| 162 | m- FLANGE SOCKET Nominal Diameter (mm) : 300 |
| 163 | p- DOUBLE SOCKET COLLAR NOMINAL DIA MM: 400 |
| 164 | q- DOUBLE SOCKET BEND --90 ° - Nominal Diameter (mm) :300 |
| 165 | r- DOUBLE SOCKET BEND --90 ° - Nominal Diameter (mm) :400 |
| 166 | S.DOUBLE SOCKET BEND 45 ° - Nominal Diameter (mm) :300 |
| 167 | T- DOUBLE SOCKET BEND --45 ° - Nominal Diameter (mm) : 400 |

I-F: Crossing rivers pipes

| No | Description |
|-----------|---|
| | Ductile iron pipes Thrust resistance Joint (locked -Joint) complete with rubber rings as below :- |
| 168 | a- 1000 mm dia |
| 169 | b- 900 mm dia |
| 170 | c- 800 mm dia |
| 171 | d- 700 mm dia |
| 172 | e- 600 mm dia |
| 173 | f- 500 mm dia |
| 174 | g- 450 mm dia |
| 175 | h- 400 mm dia |
| 176 | i- 350 mm dia |
| 177 | j- 300 mm dia |
| 178 | k- 250 mm dia |
| 179 | l- 200 mm dia |
| 180 | m- 150 mm dia |
| 181 | n- 100 mm dia |

I – G Strainers (GWSA)

| No | Description |
|-----|--|
| 182 | Flanged Strainer complete with foot valve :- a- (100) mm dia b- (150)mm dia c- (200) mm dia d- (250) mm dia e- (300) mm dia f- (350) mm dia g- (400) mm dia h- (450) mm dia i- (500) mm dia j- (600) mm dia k- (700) mm dia |

I-G(GWSA): Maintenance fittings

| No | Description |
|-----------|--|
| 183 | Stainless steel repair clamps with rubber gasket and stainless steel bolts :- a- 600 mm. Dia. b- 500 mm .dia. c- 450 mm .dia. d- 400 mm .dia. e- 350 mm. Dia. f- 300 mm. Dia. g- 250 mm. Dia. h- 200 mm. Dia. i- 150 mm. Dia. j- 100 mm. Dia. |
| 184 | Couplings (Expansion joint)flat end for steel pipes :- a- 800 mm. Dia. b- 600 mm .dia. c- 500 mm .dia. d- 450 mm .dia. e- 400 mm. Dia. f- 350 mm. Dia. i- 300 mm. Dia. j- 250 mm. Dia. k- 200 mm. Dia. l- 150 mm. Dia. |
| 185 | Dctile iron express collars complete with rubber rings stainless steel bolts/nuts and washers as below :- a- 1000 mm. dia. b- 900 mm. Dia. c- 800 mm. Dia. d- 700 mm. Dia. e- 600 mm. Dia. f- 500 mm .dia. g- 450 mm .dia. h- 400 mm .dia. i- 350 mm. Dia. j- 300 mm. Dia. k- 250 mm. dia. l- 200 mm. dia. m- 150 mm. Dia. n- 100 mm. dia. |

| No | Description |
|-----------|---|
| 186 | Couplings (Expansion joint) flanged end for steel pipe :- a- 800 mm. dia. b- 600 mm. dia. c- 500 mm. dia. d- 450 mm .dia. e- 400 mm .dia. f- 350 mm. dia. g- 300 mm. dia. h- 250 mm. Dia I- 200 mm. Dia j- 150 mm. Dia |

II PUMPS

(Excluding all items that may be notifiable under resolution 1051)

II-A: Horizontal Split Case Pumps

- 1- Complete electrical horizontal split case pumps with motors, starters, spare parts as mentioned below .
 - Impeller of bronze, shaft of stainless steel.
- 2- Squirrel cage motor, 3 Ph., 400 V, 50 Hz., IP55, Class F insulation coupled to the pump on steel frame except the item with mark x must be slipping
- 3- Starter must be (star- delta) starter for motor above (5) KW., below must be (D.O.L) starter.
 - Motor rating must be (20%) more power required.
 - * (N PSH) of the pump not more than 5 Mt .
 - * The efficiency of the pumps should be not less 70 % except the multistage pumps and
 - Each starter must be steel cabinet IP 56 contain :
 - One) Main isolating switch with main fuses.
 - Two) Contactors, overload relay, timer
 - Three) Phase failure
 - Four) Ammeter, Voltmeter with selector switch indicating lamps, push button- all on front of cabinet.
- 4- Spare parts for each pump
 - One) Impeller
 - Two) Shaft sleeve
 - Three) Casing wear ring
 - Four) Set of Ball Bearing (for motor and pump)
- 5- Supply each pump gate valve 2 No. , NoN -return valve 1 No.
Note : M S must be multistage.

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|-------|-------------------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 187 | | Wasit | Al suwaira w.t.p | 250 | 80 | S.C | 1500 |
| 188 | | Wasit | New Nummaniya w.t.p | 165 | 40 | S.C | 1500 |
| 189 | | Wasit | Old Nummaniya w.t.p | 120 | 40 | S.C | 1500 |
| 190 | | Wasit | Old Nummaniya w.t.p | 120 | 20 | S.C | 1500 |
| 191 | | Wasit | New Nummaniya w.t.p | 160 | 20 | S.C | 1500 |
| 192 | | Wasit | Al –Ahrar w.t.p | 165 | 50 | S.C | 1500 |
| 193 | | Wasit | Al –Ahrar w.t.p | 170 | 20 | S.C | 1500 |
| 194 | | Wasit | Jasan w.t.p | 100 | 50 | S.C | 1500 |
| 195 | | Wasit | Jasan w.t.p | 120 | 20 | S.C | 1500 |
| 196 | | Wasit | Sheikh saad w.t.p | 80 | 50 | S.C | 1500 |
| 197 | | Wasit | Al Dubouni w.t.p | 55 | 50 | S.C | 3000 |
| 198 | | Wasit | Al Dubouni w.t.p | 60 | 25 | S.C | 1500 |
| 199 | | Wasit | Al Mazraa w.t.p | 90 | 50 | S.C | 1500 |
| 200 | | Wasit | Al Mazraa w.t.p | 60 | 25 | S.C | 1500 |
| 201 | | Wasit | Al Dahnouk w.t.p | 350 | 20 | S.C | 1500 |
| 202 | | Wasit | Al Dahnouk w.t.p | 230 | 50 | S.C | 1500 |
| 203 | | Wasit | Kut w.t.p | 850 | 20 | S.C | 1500 |
| 204 | | Wasit | Kut w.t.p | 650 | 40 | S.C | 1500 |
| 205 | | Wasit | Al Hay w.t.p | 550 | 50 | S.C | 1500 |
| 206 | | Wasit | Al Hay w.t.p | 450 | 20 | S.C | 1500 |
| 207 | | Wasit | Al Hay w.t.p | 450 | 40 | S.C | 1500 |
| 208 | | Wasit | Al Suwaira w.t.p | 550 | 40 | S.C | 1500 |
| 209 | | Wasit | Al Muaffaqiya w.t.p | 90 | 20 | S.C | 1500 |
| 210 | | Wasit | Al Muaffaqiya w.t.p | 80 | 40 | S.C | 1500 |
| 211 | | Wasit | Al Zubaidia w.t.p | 55 | 40 | S.C | 3000 |
| 212 | | Wasit | Al Zubaidia w.t.p | 60 | 20 | S.C | 1500 |
| 213 | | Wasit | Sheikh saad w.t.p | 180 | 20 | S.C | 1500 |
| 214 | | Wasit | Sheikh saad w.t.p | 80 | 100 | S.C | 1500 |
| 215 | | Wasit | Sheikh saad w.t.p | 80 | 50 | S.C | 3000 |
| 216 | | Wasit | Um Sunayem w.t.p | 60 | 20 | S.C | 1500 |
| 217 | | Wasit | Um Sunayem w.t.p | 55 | 40 | S.C | 3000 |
| 218 | | Wasit | Al Suwaira w.t.p | 650 | 50 | S.C | 1500 |
| 219 | | Wasit | Al Suwaira w.t.p | 650 | 20 | S.C | 1500 |
| 220 | | Wasit | Al Suwaira w.t.p | 500 | 85 | S.C | 1500 |
| 221 | | Wasit | Al Suwaira w.t.p | 150 | 80 | S.C | 1500 |
| 222 | | Wasit | Al Samideen wal Muntasireen C.U. | 110 | 20 | S.C | 1500 |
| 223 | | Wasit | Al Samideen wal Muntasireen C.U. | 90 | 40 | S.C | 1500 |
| 224 | | Wasit | Al Bashar w.t.p | 60 | 20 | S.C | 1500 |
| 225 | | Wasit | Al Bashar w.t.p | 55 | 50 | S.C | 3000 |
| 226 | | Wasit | Wasit W.T.P | 60 | 20 | S.C | 1500 |
| 227 | | Wasit | Wasit W.T.P | 90 | 40 | S.C | 1500 |
| 228 | | Wasit | Al Aziziya w.t.p | 600 | 10 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|--------|--|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 229 | | Wasit | Al Aziziya w.t.p | 400 | 20 | S.C | 1500 |
| 230 | | Missan | Amara w.t.p Unified | 600 | 20 | S.C | 1500 |
| 231 | | Missan | Amara w.t.p Unified | 550 | 40 | S.C | 1500 |
| 232 | | Missan | Boosting Station | 120 | 60 | S.C | 1500 |
| 233 | | Missan | Al Rafiden w.t.p | 350 | 40 | S.C | 1500 |
| 234 | | Missan | Al Rafiden w.t.p | 400 | 20 | S.C | 1500 |
| 235 | | Missan | Al Kahla, almajer, aladil, al musharah , ali- sharqia , kumat ,qalut salhia w.t.p | 120 | 40 | S.C | 1500 |
| 236 | | Missan | Al Kahla, almajer, aladil, al musharah , ali- sharqia , kumat ,qalut salhia w.t.p | 150 | 20 | S.C | 1500 |
| 237 | | Basrah | Al Hussen Boosting Station | 930 | 60 | S.C | 1500 |
| 238 | | Basrah | Al Hussen Boosting Station | 750 | 120 | S.C | 1500 |
| 239 | | Basrah | Al Mudaina W.T.P | 200 | 50 | S.C | 1500 |
| 240 | | Basrah | Al Jasem | 100 | 60 | S.C | 1500 |
| 241 | | Basrah | Shatt - Al Hel | 50 | 50 | S.C | 2900 |
| 242 | | Basrah | Garma No. (2) | 50 | 50 | S.C | 2900 |
| 243 | | Basrah | Shatt – Arab W.T.P | 480 | 9 | S.C | 1500 |
| 244 | | Basrah | Al –Mufeqeya Boosting Station | 160 | 80 | S.C | 1500 |
| 245 | | Basrah | Khor AL Zubair W.T.P | 378 | 60 | S.C | 1500 |
| 246 | | Basrah | Khor AL Zubair W.T.P | 405 | 6 | S.C | 1500 |
| 247 | | Basrah | Khor AL Zubair W.T.P | 540 | 11 | S.C | 1500 |
| 248 | | Basrah | Al Dair W.T.P | 250 | 50 | S.C | 1500 |
| 249 | | Basrah | Al Dair W.T.P | 200 | 20 | S.C | 1500 |
| 250 | | Basrah | Al Bratheaa W.T.P | 400 | 60 | S.C | 1500 |
| 251 | | Basrah | Al Bratheaa W.T.P | 400 | 25 | S.C | 1500 |
| 252 | | Basrah | Al -Faw W.T.P | 400 | 79 | S.C | 1500 |
| 253 | | Basrah | Al -Faw W.T.P | 300 | 20 | S.C | 1500 |
| 254 | | Basrah | Faw Net Work | 50 | 50 | S.C | 2900 |
| 255 | | Basrah | Faw Net Work | 200 | 50 | S.C | 1500 |
| 256 | | Basrah | Old Al-Mudaina w.t.p | 200 | 20 | S.C | 1500 |
| 257 | | Basrah | Old Al-Mudaina w.t.p | 200 | 80 | S.C | 1500 |
| 258 | | Basrah | Al Bratheaa w.t.p | 1500 | 90 | S.C | 1500 |
| 259 | | Basrah | Al Suwaip w.t.p | 200 | 60 | S.C | 1500 |
| 260 | | Basrah | Al Basrah Unified w.t.p | 1000 | 80 | S.C | 1500 |
| 261 | | Basrah | Al Basrah Unified w.t.p | 400 | 60 | S.C | 1500 |
| 262 | | Basrah | Old Al Shuwaiba w.t.p | 400 | 60 | S.C | 1500 |
| 263 | | Basrah | Al Ribat w.t.p | 200 | 50 | S.C | 1500 |
| 264 | | Basrah | Abo –Alkasib w.t.p | 200 | 50 | S.C | 1500 |
| 265 | | Basrah | Abo –Alkasib w.t.p | 200 | 50 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|------------|----------------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 266 | | Basrah | Abo –Alkasib w.t.p | 50 | 50 | S.C | 2900 |
| 267 | | Al Muthana | Hay -Al Saniya | 300 | 80 | S.C | 1500 |
| 268 | | Al Muthana | Al Daraje w.t.p | 60 | 50 | S.C | 3000 |
| 269 | | Al Muthana | Al Daraje w.t.p | 60 | 20 | S.C | 1500 |
| 270 | | Al Muthana | Al Majed w.t.p | 60 | 50 | S.C | 3000 |
| 271 | | Al Muthana | Al –HALAL Village | 60 | 50 | S.C | 3000 |
| 272 | | Al Muthana | Al –HALAL w.t.p | 100 | 50 | S.C | 1500 |
| 273 | | Al Muthana | Storm Station | 100 | 20 | S.C | 1500 |
| 274 | | Al Muthana | Storm Station | 150 | 20 | S.C | 1500 |
| 275 | | Al Muthana | Storm Station | 200 | 20 | S.C | 1500 |
| 276 | | Al Muthana | Al Warka W.T.P | 300 | 20 | S.C | 1500 |
| 277 | | Al Muthana | Al Warka W.T.P | 216 | 60 | S.C | 1500 |
| 278 | | Al Muthana | Al Warka W.T.P | 216 | 90 | S.C | 1500 |
| 279 | | Al Muthana | Al Warka W.T.P | 216 | 15 | S.C | 1500 |
| 280 | | Al Muthana | Ramathan Boosting | 500 | 40 | S.C | 1500 |
| 281 | | Al Muthana | Al Karama Boosting | 100 | 70 | S.C | 3000 |
| 282 | | Al Muthana | Al Majed - Al – Mamlaha B.S | 300 | 70 | S.C | 1500 |
| 283 | | Al Muthana | Al Mamlaha B.S | 216 | 60 | S.C | 1500 |
| 284 | | Al Muthana | Al -Entsar B.S | 100 | 40 | S.C | 1500 |
| 285 | | Al Muthana | Al Rsala Residenital Building | 100 | 60 | S.C | 1500 |
| 286 | | Al Muthana | Al Askan Residenital Building | 25 | 20 | S.C | 1500 |
| 287 | | Al Muthana | New Project | 675 | 90 | S.C | 1500 |
| 288 | | Al Muthana | New Project | 810 | 15 | S.C | 1500 |
| 289 | | Al Muthana | Al Kader w.t.p | 216 | 40 | S.C | 1500 |
| 290 | | Al Muthana | Al Sakak Houses | 120 | 50 | S.C | 1500 |
| 291 | | Al Muthana | New Rumaitha W.T.P | 700 | 80 | S.C | 1500 |
| 292 | | Al Muthana | New Rumaitha W.T.P | 200 | 60 | S.C | 1500 |
| 293 | | Al Muthana | New Rumaitha W.T.P | 800 | 12 | S.C | 1500 |
| 294 | | Al Muthana | New Rumaitha W.T.P | 510 | 15 | S.C | 1500 |
| 295 | | Al Muthana | New Rumaitha W.T.P | 300 | 15 | S.C | 1500 |
| 296 | | Al Muthana | New Rumaitha W.T.P | 375 | 90 | S.C | 1500 |
| 297 | | Al Muthana | New Rumaitha W.T.P | 180 | 90 | S.C | 1500 |
| 298 | | Al Muthana | New Rumaitha W.T.P | 200 | 70 | S.C | 1500 |
| 299 | | Al Muthana | New Rumaitha W.T.P | 20 | 20 | S.C | 1500 |
| 300 | | Al Muthana | New Rumaitha W.T.P | 100 | 50 | S.C | 1500 |
| 301 | | Al Muthana | New Rumaitha W.T.P | 600 | 21 | S.C | 1500 |
| 302 | | Al Muthana | New Rumaitha W.T.P | 800 | 12 | S.C | 1500 |
| 303 | | Diala | Al Abara W.T.P | 160 | 11 | S.C | 1500 |
| 304 | | Diala | Abo –Sadia W.T.P | 600 | 8 | S.C | 1500 |
| 305 | | Diala | Abo –Sadia W.T.P | 315 | 15 | S.C | 1500 |
| 306 | | Diala | Abo –Sadia W.T.P | 90 | 60 | S.C | 1500 |
| 307 | | Diala | Abo –Sadia W.T.P | 200 | 60 | S.C | 1500 |
| 308 | | Diala | Baladroz W.T.P | 210 | 20 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|-------|----------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 309 | | Diala | Baladroz W.T.P | 210 | 30 | S.C | 1500 |
| 310 | | Diala | Baladroz W.T.P | 220 | 60 | S.C | 1500 |
| 311 | | Diala | Baladroz W.T.P | 110 | 60 | S.C | 1500 |
| 312 | | Diala | Baladroz W.T.P | 100 | 60 | S.C | 1500 |
| 313 | | Diala | Baladroz W.T.P | 75 | 60 | S.C | 3000 |
| 314 | | Diala | Baladroz W.T.P | 110 | 30 | S.C | 1500 |
| 315 | | Diala | Old Al Muqdadiya W.T.P. | 350 | 11 | S.C | 1500 |
| 316 | | Diala | Old Al Muqdadiya W.T.P. | 180 | 50 | S.C | 1500 |
| 317 | | Diala | Beni – Saad W.T.P | 410 | 10 | S.C | 1500 |
| 318 | | Diala | Beni – Saad W.T.P | 160 | 50 | S.C | 1500 |
| 319 | | Diala | Beni – Saad W.T.P | 200 | 60 | S.C | 1500 |
| 320 | | Diala | Beni – Saad W.T.P | 350 | 60 | S.C | 1500 |
| 321 | | Diala | Kanaan W.T.P | 200 | 15 | S.C | 1500 |
| 322 | | Diala | Kanaan W.T.P (M.S) | 65 | 91 | S.C | 1500 |
| 323 | | Diala | Kanaan W.T.P | 135 | 75 | S.C | 1500 |
| 324 | | Diala | Kanaan W.T.P | 65 | 52 | S.C | 3000 |
| 325 | | Diala | Kanaan W.T.P | 360 | 11 | S.C | 1500 |
| 326 | | Diala | Al Khalis W.T.P | 675 | 35 | S.C | 1500 |
| 327 | | Diala | Al Khalis W.T.P | 780 | 30 | S.C | 1500 |
| 328 | | Diala | Al Khalis W.T.P | 625 | 30 | S.C | 1500 |
| 329 | | Diala | Al Khalis W.T.P (M.S) | 100 | 100 | S.C | 1500 |
| 330 | | Diala | Baquba W.T.P | 1050 | 10 | S.C | 1500 |
| 331 | | Diala | Baquba W.T.P | 600 | 20 | S.C | 1500 |
| 332 | | Diala | Baquba W.T.P | 300 | 68 | S.C | 1500 |
| 333 | | Diala | Baquba W.T.P | 420 | 100 | S.C | 1500 |
| 334 | | Diala | Baquba W.T.P | 420 | 36 | S.C | 1500 |
| 335 | | Diala | Baquba W.T.P | 300 | 100 | S.C | 1500 |
| 336 | | Diala | Khanaqin W.T.P | 250 | 125 | S.C | 1500 |
| 337 | | Diala | Khanaqin W.T.P | 630 | 12 | S.C | 1500 |
| 338 | | Diala | Boosting Station | 600 | 70 | S.C | 1500 |
| 339 | | Diala | Boosting Station | 60 | 50 | S.C | 3000 |
| 340 | | Diala | Boosting Station | 160 | 50 | S.C | 1500 |
| 341 | | Diala | Boosting Station | 120 | 82 | S.C | 1500 |
| 342 | | Diala | Jalwla W.T.P | 420 | 36 | S.C | 1500 |
| 343 | | Diala | Jalwla W.T.P | 400 | 40 | S.C | 1500 |
| 344 | | Diala | Jalwla W.T.P | 250 | 70 | S.C | 1500 |
| 345 | | Diala | Jalwla W.T.P | 275 | 12 | S.C | 1500 |
| 346 | | Diala | Qura – Taba W.T.P | 312 | 30 | S.C | 1500 |
| 347 | | Diala | Qura – Taba W.T.P | 86 | 68 | S.C | 3000 |
| 348 | | Diala | Qura – Taba W.T.P (M.S) | 60 | 96 | S.C | 1500 |
| 349 | | Diala | Qura – Taba W.T.P | 90 | 66 | S.C | 3000 |
| 350 | | Diala | Qura – Taba W.T.P | 450 | 24 | S.C | 1500 |
| 351 | | Diala | Qura – Taba W.T.P (M.S) | 50 | 100 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|-------------|------------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 352 | | Diala | Al Munathraa W.T.P (M.S) | 100 | 100 | S.C | 1500 |
| 353 | | Diala | Al Tahrer W.T.P | 630 | 20 | S.C | 1000 |
| 354 | | Diala | Al Tahrer W.T.P | 550 | 36 | S.C | 1500 |
| 355 | | Thiqar | Nasseriah Unified W.T.P | 820 | 20 | S.C | 1500 |
| 356 | | Thiqar | Nasseriah Unified W.T.P | 796 | 170 | S.C | 1500 |
| 357 | | Thiqar | Nasseriah Unified W.T.P | 900 | 30 | S.C | 1000 |
| 358 | | Thiqar | Al Shatra W.T.P | 575 | 20 | S.C | 1500 |
| 359 | | Thiqar | Al Shatra W.T.P | 575 | 65 | S.C | 1500 |
| 360 | | Thiqar | Al Refayi W.T.P | 250 | 50 | S.C | 1500 |
| 361 | | Thiqar | Al Refayi W.T.P | 300 | 20 | S.C | 1500 |
| 362 | | Thiqar | Al Refayi W.T.P | 300 | 20 | S.C | 1500 |
| 363 | | Thiqar | Al Refayi Village W.T.P | 125 | 20 | S.C | 1500 |
| 364 | | Thiqar | Al Refayi Village W.T.P | 120 | 40 | S.C | 1500 |
| 365 | | Thiqar | Qalaat Sukkur W.T.P | 420 | 40 | S.C | 1500 |
| 366 | | Thiqar | Qalaat Sukkur W.T.P | 420 | 20 | S.C | 1500 |
| 367 | | Thiqar | Qalaat Sukkur W.T.P | 90 | 60 | S.C | 3000 |
| 368 | | Thiqar | Qalaat Sukkur W.T.P (M.S) | 90 | 100 | S.C | 1500 |
| 369 | | Thiqar | Qalaat Sukkur W.T.P | 600 | 20 | S.C | 1500 |
| 370 | | Thiqar | Al –Fajer W.T.P | 60 | 40 | S.C | 1500 |
| 371 | | Thiqar | Al –Fajer W.T.P | 64 | 20 | S.C | 1500 |
| 372 | | Thiqar | Al –Nasir W.T.P | 60 | 40 | S.C | 1500 |
| 373 | | Thiqar | Al –Nasir W.T.P | 64 | 20 | S.C | 1500 |
| 374 | | Thiqar | Suq Al – Shuqi W.T.P | 205 | 40 | S.C | 1500 |
| 375 | | Thiqar | Suq Al – Shuqi W.T.P | 120 | 50 | S.C | 1500 |
| 376 | | Thiqar | Wafah Al -Qaid Boosting | 600 | 100 | S.C | 1500 |
| 377 | | Thiqar | Garmat –Beni -Saeed W.T.P | 60 | 40 | S.C | 3000 |
| 378 | | Thiqar | Garmat -Beni -Saeed W.T.P | 64 | 20 | S.C | 1500 |
| 379 | | Thiqar | Al Fahod W.T.P | 200 | 40 | S.C | 1500 |
| 380 | | Thiqar | Al Fahod W.T.P | 205 | 30 | S.C | 1500 |
| 381 | | Thiqar | Al Dawyia W.T.P | 90 | 20 | S.C | 1500 |
| 382 | | Thiqar | Al Dawyia W.T.P | 90 | 40 | S.C | 1500 |
| 383 | | Thiqar | Al Baathya W.T.P | 200 | 40 | S.C | 1500 |
| 384 | | Thiqar | Al Baathya W.T.P | 200 | 20 | S.C | 1500 |
| 385 | | Thiqar | Al Eslah W.T.P | 90 | 40 | S.C | 1500 |
| 386 | | Thiqar | Al Eslah W.T.P | 90 | 20 | S.C | 1500 |
| 387 | | Thiqar | Old Nasseriah W.T.P | 250 | 30 | S.C | 1500 |
| 388 | | Thiqar | Old Nasseriah W.T.P | 250 | 50 | S.C | 1500 |
| 389 | | Salaheldeen | Tikrit W.T.P 2 nd stage | 850 | 41 | S.C | 1500 |
| 390 | | Salaheldeen | Tikrit W.T.P 2 nd stage | 750 | 57 | S.C | 1500 |
| 391 | | Salaheldeen | Old Tikrit W.T.P | 450 | 60 | S.C | 1500 |
| 392 | | Salaheldeen | Old Tikrit W.T.P | 400 | 40 | S.C | 1500 |
| 393 | | Salaheldeen | Al Ougi W.T.P | 200 | 25 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|----------------|--------------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 394 | | Salaheldeen | Al Ougi W.T.P | 120 | 60 | S.C | 1500 |
| 395 | | Salaheldeen | Al Ailam W.T.P | 250 | 30 | S.C | 1500 |
| 396 | | Salaheldeen | Al Ailam W.T.P (M.S) | 60 | 60 | S.C | 1500 |
| 397 | | Salaheldeen | New Al Dor W.T.P | 430 | 25 | S.C | 1500 |
| 398 | | Salaheldeen | New Al Dor W.T.P | 414 | 50 | S.C | 1500 |
| 399 | | Salaheldeen | New Al Dor W.T.P | 300 | 80 | S.C | 1500 |
| 400 | | Salaheldeen | Old Al Dor W.T.P | 250 | 50 | S.C | 1500 |
| 401 | | Salaheldeen | Old Al Dor W.T.P | 60 | 40 | S.C | 3000 |
| 402 | | Salaheldeen | Al – Sharqid W.T.P | 350 | 25 | S.C | 1500 |
| 403 | | Salaheldeen | Al – Sharqid W.T.P | 225 | 40 | S.C | 1500 |
| 404 | | Salaheldeen | Al – Sharqid W.T.P | 120 | 100 | S.C | 3000 |
| 405 | | Salaheldeen | Al – Sharqid W.T.P | 288 | 25 | S.C | 1500 |
| 406 | | Salaheldeen | Al – Sharqid W.T.P | 288 | 40 | S.C | 1500 |
| 407 | | Salaheldeen | Old Al – Sharqid W.T.P | 150 | 25 | S.C | 1500 |
| 408 | | Salaheldeen | Old Al – Sharqid W.T.P | 96 | 30 | S.C | 1500 |
| 409 | | Salaheldeen | Al – Sharqid Villiage W.T.P | 350 | 25 | S.C | 1500 |
| 410 | | Salaheldeen | Al – Sharqid Villiage W.T.P | 120 | 100 | S.C | 3000 |
| 411 | | Salaheldeen | Al - Sharqid W.T.P No. (2) | 210 | 25 | S.C | 1500 |
| 412 | | Salaheldeen | Al -Sharqid W.T.P No. (2) | 144 | 40 | S.C | 1500 |
| 413 | | Salaheldeen | Al –Fairs W.T.P | 95 | 20 | S.C | 1500 |
| 414 | | Salaheldeen | Al –Fairs W.T.P | 95 | 60 | S.C | 1500 |
| 415 | | Salaheldeen | Al –Tarmiyah W.T.P | 90 | 20 | S.C | 1500 |
| 416 | | Salaheldeen | Al –Tarmiyah W.T.P | 90 | 50 | S.C | 1500 |
| 417 | | Salaheldeen | Old Dozz W.T.P | 180 | 80 | S.C | 1500 |
| 418 | | Salaheldeen | Samarra W.T.P | 800 | 60 | S.C | 1500 |
| 419 | | Salaheldeen | Samarra W.T.P | 450 | 50 | S.C | 1500 |
| 420 | | Salaheldeen | Al –Fairs W.S.S | 1495 | 15 | S.C | 1500 |
| 421 | | Salaheldeen | New Balad W.T.P | 250 | 20 | S.C | 1500 |
| 422 | | Salaheldeen | Ishaqi – Uthrap W.T.P | 130 | 30 | S.C | 1500 |
| 423 | | Salaheldeen | Ishaqi – Uthrap W.T.P | 90 | 60 | S.C | 1500 |
| 424 | | Salaheldeen | Ishaqi – Uthrap W.T.P | 360 | 102 | S.C | 1500 |
| 425 | | Salaheldeen | Ishaqi – Uthrap W.T.P | 420 | 82 | S.C | 1500 |
| 426 | | Salaheldeen | Ishaqi – Uthrap W.T.P | 575 | 20 | S.C | 1500 |
| 427 | | Salaheldeen | Balad W.S.S. | 250 | 25 | S.C | 1500 |
| 428 | | Salaheldeen | Balad W.S.S. | 500 | 25 | S.C | 1500 |
| 429 | | Salaheldeen | New Al –Thoayia W.S.S | 250 | 25 | S.C | 1500 |
| 430 | | Salaheldeen | Old Al –Thoayia W.S.S | 250 | 25 | S.C | 1500 |
| 431 | | Salaheldeen | New Al –Thoayia W.S.S | 210 | 45 | S.C | 1500 |
| 432 | | Salaheldeen | Old Al –Thoayia W.S.S | 210 | 45 | S.C | 1500 |
| 433 | | Baghdad | Old Madain W.T.P. | 264 | 68 | S.C | 1500 |
| 434 | | Baghdad | Old Madain W.T.P. | 264 | 12 | S.C | 1500 |
| 435 | | Baghdad | New Madain W.T.P. | 900 | 17 | S.C | 1500 |
| 436 | | Baghdad | Al Rashidya W.T.P | 780 | 14 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|----------------|--------------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 437 | | Baghdad | Al –Muhmodia W.T.P. | 1050 | 15 | S.C | 1500 |
| 438 | | Baghdad | Al –Muhmodia W.T.P. | 1000 | 37 | S.C | 1500 |
| 439 | | Baghdad | Al –Muhmodia B.S. | 500 | 15 | S.C | 1500 |
| 440 | | Baghdad | Al- Lateffai W.T.P | 300 | 15 | S.C | 1500 |
| 441 | | Baghdad | Al- Lateffai W.T.P | 300 | 5 | S.C | 1500 |
| 442 | | Baghdad | Al- Lateffai W.T.P | 100 | 30 | S.C | 1500 |
| 443 | | Baghdad | Al-Rashida W.T.P | 183 | 11 | S.C | 1500 |
| 444 | | Baghdad | Al-Rashida W.T.P | 800 | 11 | S.C | 1500 |
| 445 | | Baghdad | Al-Rashida W.T.P | 450 | 55 | S.C | 1500 |
| 446 | | Baghdad | Al-Rashida W.T.P | 195 | 60 | S.C | 1500 |
| 447 | | Baghdad | Al-Rashida W.T.P | 150 | 58 | S.C | 1500 |
| 448 | | Baghdad | Al-Rashida W.T.P | 735 | 40 | S.C | 1500 |
| 449 | | Baghdad | Al-Rashida W.T.P | 600 | 12 | S.C | 1500 |
| 450 | | Baghdad | Al-Nahrawin Boosting | 500 | 80 | S.C | 1500 |
| 451 | | Baghdad | Al-Nahrawin Boosting | 1000 | 85 | S.C | 1500 |
| 452 | | Najaf | Najaf W.T.P | 2280 | 196 | S.C | 1500 |
| 453 | | Kerbala | Jadwal Al-Gharbi W.T.P | 120 | 40 | S.C | 1500 |
| 454 | | = | Jadwal Al-Gharbi W.T.P | 120 | 20 | S.C | 1500 |
| 455 | | = | Jadwal Al-Gharbi W.T.P | 60 | 40 | S.C | 3000 |
| 456 | | = | Jadwal Al-Gharbi W.T.P | 60 | 20 | S.C | 1500 |
| 457 | | = | Boosting Station | 1200 | 42 | S.C | 1500 |
| 458 | | = | Project No. (7) | 1400 | 17 | S.C | 1000 |
| 459 | | = | Project No. (7) | 1350 | 50 | S.C | 1000 |
| 460 | | = | Project No. (7) | 540 | 9 | S.C | 1000 |
| 461 | | = | Ain –Tamer Boosting Station | 350 | 100 | S.C | 1500 |
| 462 | | = | Al-Uriba Boosting Station | 1200 | 40 | S.C | 1500 |
| 463 | | = | Al-Hindaya W.T.P | 735 | 25 | S.C | 1500 |
| 464 | | = | Al-Hindaya W.T.P | 445 | 46 | S.C | 1500 |
| 465 | | = | Al-Hindaya W.T.P | 333 | 60 | S.C | 1500 |
| 466 | | = | Al-Hindaya W.T.P | 1200 | 25 | S.C | 1500 |
| 467 | | = | Al-Hindaya W.T.P | 762 | 30 | S.C | 1500 |
| 468 | | = | Sewage Project | 500 | 30 | S.C | 1000 |
| 469 | | = | Old Al-Hindaya W.T.P | 160 | 25 | S.C | 1500 |
| 470 | | = | Old Al-Hindaya W.T.P | 150 | 60 | S.C | 1500 |
| 471 | | Babil | New –Hilla W.T.P | 1600 | 7 | S.C | 1000 |
| 472 | | taameem | Different Place | 540 | 70 | S.C | 1500 |
| 473 | | = | Different Place | 900 | 30 | S.C | 1500 |
| 474 | | = | Al Zap Unified W.T.P (M.S) | 100 | 80 | S.C | 1500 |
| 475 | | = | Al Zap W.T.P (M.S) | 90 | 100 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|------------------|------------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 476 | | = | Al Zap Village (M.S) W.T. | 80 | 60 | S.C | 1500 |
| 477 | | = | Al Zap Village (M.S) W.T. | 85 | 20 | S.C | 1500 |
| 478 | | = | Al Reyadh Village W.T. | 312 | 20 | S.C | 1500 |
| 479 | | = | Al Reyadh W.T. | 200 | 60 | S.C | 1500 |
| 480 | | = | Al Reyadh W.T. | 220 | 20 | S.C | 1500 |
| 481 | | taameem | Al Abassy w.t. | 140 | 70 | S.C | 1500 |
| 482 | | = | Al Abassy w.t. | 160 | 20 | S.C | 1500 |
| 483 | | = | Al Daquk w.t.p | 375 | 60 | S.C | 1500 |
| 484 | | = | Al Daquk w.t.p | 380 | 20 | S.C | 1500 |
| 485 | | = | Taza W.T. | 260 | 60 | S.C | 1500 |
| 486 | | = | Taza W.T. | 280 | 20 | S.C | 1500 |
| 487 | | = | Hassan Village W.T. | 80 | 20 | S.C | 1500 |
| 488 | | = | Hassan Village W.T. | 70 | 60 | S.C | 3000 |
| 489 | | = | Tal Ali W.T. | 150 | 70 | S.C | 1500 |
| 490 | | = | Tal Ali W.T. | 160 | 30 | S.C | 1500 |
| 491 | | = | Al Toon Kobry W.T. | 400 | 60 | S.C | 1500 |
| 492 | | = | Al Toon Kobry W.T. | 420 | 20 | S.C | 1500 |
| 493 | | = | Al DEBIS W.T. | 600 | 20 | S.C | 1500 |
| 494 | | = | Al DEBIS W.T. | 800 | 20 | S.C | 1500 |
| 495 | | = | Al DEBIS W.T. | 600 | 20 | S.C | 1500 |
| 496 | | = | Al DEBIS W.T. | 300 | 60 | S.C | 1500 |
| 497 | | = | Al DEBIS W.T./3300 volts | 500 | 500 | S.C | 1500 |
| 498 | | Qadeseaya | Diwaniya W.T. * | 1150 | 17 | S.C | 1500 |
| 499 | | = | Diwaniya W.T. * | 1000 | 16 | S.C | 1500 |
| 500 | | = | Diwaniya W.T. * | 225 | 64 | S.C | 1500 |
| 501 | | = | Diwaniya W.T. * | 350 | 21 | S.C | 1500 |
| 502 | | = | Diwaniya W.T. * | 600 | 10 | S.C | 1500 |
| 503 | | = | Diwaniya W.T. * | 1000 | 53 | S.C | 1500 |
| 504 | | = | Diwaniya W.T. * | 300 | 33 | S.C | 1500 |
| 505 | | = | Diwaniya W.T. * | 300 | 15 | S.C | 1500 |
| 506 | | = | Diwaniya W.T. * | 590 | 17 | S.C | 1500 |
| 507 | | = | Al Shameayah W.T. | 425 | 40 | S.C | 1500 |
| 508 | | = | Al Shameayah W.T. | 290 | 55 | S.C | 1500 |
| 509 | | = | Al Shameayah W.T. | 270 | 53 | S.C | 1500 |
| 510 | | = | Al Shameayah W.T. | 261 | 53 | S.C | 1500 |
| 511 | | = | Al Qammas W.T. | 150 | 40 | S.C | 1500 |
| 512 | | = | Al Qammas W.T. | 200 | 20 | S.C | 1500 |
| 513 | | = | Al Bdeer W.T. | 150 | 20 | S.C | 1500 |
| 514 | | = | Al Bdeer W.T. | 90 | 40 | S.C | 1500 |
| 515 | | = | Al Dagara W.T. | 300 | 24 | S.C | 1500 |
| 516 | | = | Al Dagara W.T. (M.S) | 90 | 84 | S.C | 3000 |
| 517 | | = | Al Dagara W.T. (M.S) | 150 | 73 | S.C | 1500 |
| 518 | | Nenewa | Al-Mousel right bank w.t | 1440 | 35 | S.C | 1500 |
| 519 | | = | Al-Mousel right bank w.t | 1380 | 90 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|---------------|----------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 520 | | = | Al-Mousel right bank w.t | 1380 | 60 | S.C | 1500 |
| 521 | | = | Al-Mousel right bank w.t | 960 | 60 | S.C | 1500 |
| 522 | | = | Al-Mousel lift bank w.t | 1000 | 30 | S.C | 1500 |
| 523 | | = | Al-Mousel lift bank w.t | 960 | 60 | S.C | 1500 |
| 524 | | = | Al-Mousel lift bank w.t | 1190 | 80 | S.C | 1500 |
| 525 | | = | Al-Mousel lift bank w.t | 1190 | 53 | S.C | 1500 |
| 526 | | = | Al-Mousel lift bank w.t | 1000 | 80 | S.C | 1500 |
| 527 | | = | Al-Mousel lift bank w.t | 130 | 55 | S.C | 1500 |
| 528 | | = | Hamam Al-Alel W.T.P | 200 | 40 | S.C | 1500 |
| 529 | | = | Hamam Al-Alel W.T.P | 250 | 20 | S.C | 1500 |
| 530 | | = | Al-Hather W.T.P | 300 | 190 | S.C | 1500 |
| 531 | | = | Al-Hather W.T.P | 350 | 75 | S.C | 1500 |
| 532 | | = | Al-Baiaj W.T.P | 150 | 20 | S.C | 1500 |
| 533 | | = | Makhmor W.T.P | 400 | 50 | S.C | 1500 |
| 534 | | = | Makhmor W.T.P | 60 | 70 | S.C | 1500 |
| 535 | | = | Makhmor W.T.P | 100 | 120 | S.C | 1500 |
| 536 | | = | Makhmor W.T.P | 200 | 20 | S.C | 1500 |
| 537 | | = | Al-Hamdanya W.T.P | 200 | 60 | S.C | 1500 |
| 538 | | = | Al-Hamdanya W.T.P | 600 | 40 | S.C | 1500 |
| 539 | | = | Al-Hamdanya W.T.P | 210 | 35 | S.C | 1500 |
| 540 | | Nenewa | Al-Shikan W.T.P | 90 | 30 | S.C | 1500 |
| 541 | | = | Rabia a W.T.P | 150 | 20 | S.C | 1500 |
| 542 | | = | Tal Akaif W.T.P (M.S) | 100 | 255 | S.C | 1500 |
| 543 | | = | Tal Akaif W.T.P | 100 | 20 | S.C | 1500 |
| 544 | | = | Tal Akaif W.T.P (M.S) | 600 | 180 | S.C | 1500 |
| 545 | | = | Tal Akaif W.T.P (M.S) | 200 | 116 | S.C | 1500 |
| 546 | | = | Tal Akaif W.T.P | 1200 | 47 | S.C | 1500 |
| 547 | | = | Singaar W.T.P | 60 | 80 | S.C | 1500 |
| 548 | | = | Hamadit W.T.P | 90 | 30 | S.C | 1500 |
| 549 | | = | Hamadit W.T.P | 60 | 40 | S.C | 1500 |
| 550 | | = | Hamadit W.T.P | 90 | 50 | S.C | 1500 |
| 551 | | = | Hamadit W.T.P | 60 | 40 | S.C | 1500 |
| 552 | | = | Zemar W.T.P | 61 | 36 | S.C | 1500 |
| 553 | | = | Zemar W.T.P (M.S) | 210 | 25 | S.C | 1500 |
| 554 | | = | Al-Kaira W.T.P | 144 | 30 | S.C | 1500 |
| 555 | | = | Al-Kaira W.T.P | 144 | 50 | S.C | 1500 |
| 556 | | = | Al-Kaira W.T.P | 60 | 30 | S.C | 1500 |
| 557 | | = | Al-Shora W.T.P | 300 | 40 | S.C | 1500 |
| 558 | | = | Al-Shora W.T.P | 144 | 30 | S.C | 1500 |
| 559 | | = | Al-Shora W.T.P | 280 | 80 | S.C | 1500 |
| 560 | | = | Al-Shora W.T.P | 50 | 75 | S.C | 1500 |
| 561 | | = | Al-Rashidya w.t.p | 150 | 15 | S.C | 1500 |
| 562 | | = | Al-Rashidya w.t.p | 100 | 15 | S.C | 1500 |
| 563 | | = | Al-Rashidya w.t.p (M.S) | 100 | 100 | S.C | 1500 |
| 564 | | = | Tal afer W.T.P | 1050 | 15 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|--------|----------------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 565 | | = | Tal afer W.T.P | 850 | 115 | S.C | 1500 |
| 566 | | = | Tal afer W.T.P | 250 | 200 | S.C | 1500 |
| 567 | | = | Tal afer W.T.P | 300 | 18 | S.C | 1500 |
| 568 | | = | Tal afer W.T.P | 600 | 125 | S.C | 1500 |
| 569 | | = | Tal afer W.T.P | 90 | 50 | S.C | 1500 |
| 570 | | = | Tal afer W.T.P | 300 | 50 | S.C | 1500 |
| 571 | | = | Tal afer W.T.P (M.S) | 240 | 150 | S.C | 1500 |
| 572 | | = | Tal afer W.T.P(M.S) | 60 | 140 | S.C | 1500 |
| 573 | | = | Al-Hamadanya W.T.P | 720 | 30 | S.C | 1500 |
| 574 | | = | Al-Hamadanya W.T.P | 900 | 165 | S.C | 1500 |
| 575 | | = | Al-Hamadanya W.T.P | 120 | 40 | S.C | 1500 |
| 576 | | = | Al-Hamadanya W.T.P | 180 | 90 | S.C | 1500 |
| 577 | | = | Al-Hamadanya W.T.P | 780 | 52 | S.C | 1500 |
| 578 | | = | Al-Hamadanya W.T.P | 500 | 40 | S.C | 1500 |
| 579 | | = | Gir -Gaber W.T.P (M.S) | 150 | 125 | S.C | 1500 |
| 580 | | = | Gir –Gaber W.T.P | 150 | 20 | S.C | 1500 |
| 581 | | = | Gir -Gaber W.T.P (M.S) | 90 | 90 | S.C | 1500 |
| 582 | | = | Gir -Gaber W.T.P (M.S) | 90 | 100 | S.C | 1500 |
| 583 | | = | Gir –Gaber W.T.P | 90 | 30 | S.C | 1500 |
| 584 | | = | Gir –Gaber W.T.P | 150 | 30 | S.C | 1500 |
| 585 | | Nenewa | Al - Quraj W.T.P | 400 | 35 | S.C | 1500 |
| 586 | | = | Al – Quraj W.T.P | 200 | 150 | S.C | 1500 |
| 587 | | = | Al – Quraj W.T.P | 90 | 60 | S.C | 1500 |
| 588 | | = | Al - Quraj W.T.P (M.S) | 150 | 100 | S.C | 1500 |
| 589 | | = | Al-Kware W.T.P | 550 | 40 | S.C | 1500 |
| 590 | | = | Al-Kware W.T.P | 180 | 70 | S.C | 1500 |
| 591 | | = | Al-Kware W.T.P (M.S) | 90 | 100 | S.C | 1500 |
| 592 | | = | Al-Dindin W.T.P | 650 | 60 | S.C | 1500 |
| 593 | | = | Al-Dindin W.T.P | 45 | 15 | S.C | 1500 |
| 594 | | = | Al-Kware W.T.P | 900 | 8 | S.C | 1000 |
| 595 | | = | Al-Kware W.T.P (M.S) | 100 | 200 | S.C | 1500 |
| 596 | | = | Dabaka W.T.P(M.S) | 75 | 200 | S.C | 1500 |
| 597 | | = | Tal a fer W.T.P(M.S) | 250 | 200 | S.C | 1500 |
| 598 | | = | Tal a fer W.T.P(M.S) | 150 | 200 | S.C | 1500 |
| 599 | | = | Makhmor W.T.P (M.S) | 150 | 200 | S.C | 1500 |
| 600 | | = | Makhmor W.T.P | 100 | 60 | S.C | 1500 |
| 601 | | = | Makhmor W.T.P (M.S) | 100 | 125 | S.C | 1500 |
| 602 | | = | Makhmor W.T.P | 200 | 20 | S.C | 1500 |
| 603 | | = | Makhmor W.T.P (M.S) | 400 | 160 | S.C | 1500 |
| 604 | | = | Qadissia Boosting Station | 200 | 35 | S.C | 1500 |
| 605 | | = | Boosting Station inside mosul | 400 | 50 | S.C | 1500 |
| 606 | | = | Boosting Station inside mosul | 90 | 60 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|--------------|----------------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 607 | | = | Boosting Station inside mosul | 400 | 60 | S.C | 1500 |
| 608 | | = | Boosting Station inside mosul | 144 | 40 | S.C | 1500 |
| 609 | | = | Boosting Station inside mosul | 500 | 60 | S.C | 1500 |
| 610 | | = | Boosting Station inside mosul | 500 | 50 | S.C | 1500 |
| 611 | | = | Boosting Station inside mosul | 60 | 40 | S.C | 1500 |
| 612 | | = | Boosting Station inside mosul | 400 | 50 | S.C | 1500 |
| 613 | | = | Boosting Station inside mosul | 500 | 60 | S.C | 1500 |
| 614 | | = | Boosting Station inside mosul | 640 | 80 | S.C | 1500 |
| 615 | | = | Boosting Station inside mosul | 500 | 60 | S.C | 1500 |
| 616 | | = | Boosting Station inside mosul | 400 | 50 | S.C | 1500 |
| 617 | | = | Boosting Station inside mosul | 500 | 50 | S.C | 1500 |
| 618 | | Nenewa | Boosting Station inside mosul | 250 | 40 | S.C | 1500 |
| 619 | | = | Boosting Station inside mosul | 20 | 40 | S.C | 1500 |
| 620 | | = | Boosting Station inside mosul | 144 | 60 | S.C | 1500 |
| 621 | | = | Boosting Station inside mosul | 200 | 60 | S.C | 1500 |
| 622 | | = | Boosting Station inside mosul | 600 | 50 | S.C | 1500 |
| 623 | | = | Boosting Station inside mosul | 250 | 60 | S.C | 1500 |
| 624 | | = | Boosting Station inside mosul | 300 | 60 | S.C | 1500 |
| 625 | | Anbar | Ramadi W.T.P | 1000 | 68 | S.C | 1500 |
| 626 | | = | New Ramadi W.T.P | 300 | 20 | S.C | 1500 |
| 627 | | = | Al-Fallaja W.T.P | 700 | 80 | S.C | 1500 |
| 628 | | = | Old Al-Fallaja W.T.P | 350 | 50 | S.C | 1500 |
| 629 | | = | Al-Namaia W.T.P | 250 | 50 | S.C | 1500 |
| 630 | | = | Unified Heet -Kabasia w.t.p | 350 | 60 | S.C | 1500 |
| 631 | | = | Kabasia W.T.P | 150 | 160 | S.C | 1500 |
| 632 | | = | Unified Heet -Kabasia w.t.p | 60 | 53 | S.C | 1500 |

| No | Governorate | | Project Name | Q m3/h | H mt. | Motor | |
|-----|-------------|--------------|--------------------------------|-----------|----------|-------|-------|
| | Code no. | Name | | | | Type | R P.M |
| 633 | | = | Unified Heet w.t.p | 30 | 61 | S.C | 1500 |
| 634 | | = | Unified Heet Village w.t.p | 210 | 51 | S.C | 1500 |
| 635 | | = | Old Heet w.t.p | 250 | 40 | S.C | 1500 |
| 636 | | = | Old Heet w.t.p | 250 | 60 | S.C | 1500 |
| 637 | | = | Yogaslive W.T.P | 200 | 60 | S.C | 1500 |
| 638 | | = | Al-Frait W.T.P | 150 | 60 | S.C | 1500 |
| 639 | | = | Al-Karma W.T.P | 700 | 50 | S.C | 1500 |
| 640 | | = | Al-Karhol Line | 320 | 57 | S.C | 1500 |
| 641 | | = | Al-Samah line | 240 | 62 | S.C | 1500 |
| 642 | | = | Al-Karma W.T.P | 600 | 10 | S.C | 1500 |
| 643 | | = | Al-Karma W.T.P | 750 | 60 | S.C | 1500 |
| 644 | | = | West –desert W.T.P | 700 | 190 | S.C | 1500 |
| 645 | | = | West –desert W.T.P | 700 | 171 | S.C | 1500 |
| 646 | | = | West –desert W.T.P | 600 | 200 | S.C | 1500 |
| 647 | | = | West –desert W.T.P | 600 | 132 | S.C | 1500 |
| 648 | | = | West –desert W.T.P | 600 | 250 | S.C | 1500 |
| 649 | | = | West –desert W.T.P& Al-Qaim | 375 | 70 | S.C | 1500 |
| 650 | | = | Deferent Sites | 1000 | 70 | S.C | 1500 |
| 651 | | = | Rawa W.T.P | 200 | 70 | S.C | 1500 |
| 652 | | = | Rawa W.T.P | 180 | 90 | S.C | 1500 |
| 653 | | = | Rawa W.T.P | 150 | 70 | S.C | 1500 |
| 654 | | Anbar | Rawa W.T.P | 180 | 80 | S.C | 1500 |
| 655 | | = | Al-Tharther W.T.P | 105 | 150 | S.C | 1500 |
| 656 | | = | Al-Tharther W.T.P | 50 | 100 | S.C | 1500 |
| 657 | | = | Al-Tharther W.T.P | 75 | 100 | S.C | 1500 |
| 658 | | = | Al-Tharther W.T.P | 75 | 75 | S.C | 1500 |
| 659 | | = | Al-Eabadey W.T.P | 60 | 20 | S.C | 1500 |
| 660 | | = | Al-Eabadey W.T.P | 100 | 80 | S.C | 1500 |
| 661 | | = | Al-Ratiba W.T.P | 150 | 100 | S.C | 1500 |
| 662 | | = | Al-Habaniya W.T.P | 100 | 55 | S.C | 1500 |
| 663 | | = | Al-Habaniya W.T.P | 72 | 40 | S.C | 1500 |
| 664 | | = | Al-Habaniya W.T.P | 216 | 40 | S.C | 1500 |
| 665 | | = | Anna W.T.P | 470 | 50 | S.C | 1500 |
| 666 | | = | Al-Ramadiy W.T.P | 1050 | 20 | S.C | 1500 |
| 667 | | = | Al-Ramadiy W.T.P | 350 | 20 | S.C | 1500 |
| 668 | | = | Al-Falloja W.T.P | 500 | 40 | S.C | 1500 |
| 669 | | = | Al-Falloja W.T.P | 410 | 20 | S.C | 1500 |

II-B: Horizontal End -suction Pump for compact unit

- 1- Complete electrical horizontal end -suction pump with motors, starters, spare parts as mentioned below
 - Impeller of Bronze, shaft of stainless steel.
- 2- Squirrel cage motor, 3 Ph., 400 V, 50 Hz., IP55, Class F insulation coupled to the pump on steel frame.
- 3- Starter must be(star- delta)starter for motor above(5 KW).,below must be (D.O.L)starter.
 - Motor rating must be (10%) more power required.
 - *(N PSH) of the pump not more than 5 M .
 - * The efficiency of the pumps should be not less 70 % accept the multistage pumps and
 - Each starter must be steel cabinet IP 56 contain :
 - One) Main isolating switch with main fuses.
 - Two) Contactors overload relay, timer
 - Three) phase failure
 - Four) Ammeter, Voltmeter with selector switch indicating lamps,(3 No.) , (2 No.) push button- all on front of cabinet.
 - Five) 3 set of wiring diagram
 - Spare parts for each pump
 - One) Impeller
 - Two) Shaft sleeve
 - Three) 2 No. sets of coupling rubber and pins .
 - Four) Set of Ball Bearing (for motor and pump) .(2 set)

| No | Q m3/h | H mt. | Motor | |
|-----|-----------|----------|-------|-------|
| | | | Type | R.P.M |
| 670 | 60 | 20 | S.C | 1500 |
| 671 | 60 | 50 | S.C | 1500 |
| 672 | 60 | 60 | S.C | 1500 |
| 673 | 250 | 20 | S.C | 1500 |
| 674 | 14 | 35 | S.C | 3000 |
| 675 | 200 | 15 | S.C | 1500 |
| 676 | 200 | 40 | S.C | 1500 |
| 677 | 200 | 60 | S.C | 1500 |
| 678 | 100 | 100 | S.C | 1500 |
| 679 | 50 | 71 | S.C | 1500 |
| 680 | 60 | 70 | S.C | 1500 |
| 681 | 60 | 40 | S.C | 1500 |
| 682 | 250 | 25 | S.C | 1500 |
| 683 | 250 | 60 | S.C | 1500 |
| 684 | 75 | 20 | S.C | 1500 |
| 685 | 75 | 60 | S.C | 2900 |
| 686 | 50 | 20 | S.C | 1500 |
| 687 | 150 | 20 | S.C | 1500 |
| 688 | 140 | 40 | S.C | 1500 |

II-C: Vertical Pumps

Complete vertical pump (end suction) type with squirrel cage motor , 400 v, 3 ph, 50 hz, IP 55, class F insulation, B5 with star delta starter (for all items except code no. which are mix flow pump).

- Impeller for vertical pump must be cast iron, shaft must stainless steel.
- Suction pipe from the bottom, delivery pipe must be upper side
- Code no. are mix flow pump, casing must be split at the suction flange, made from grained cast iron.
- Impeller, shaft must be stainless steel.
- Shaft bearing and seals should be water lubricated type.
 - For both (vertical pump, mix flow pump) must supplied with all required fittings (adaptor) to suit the delivery and suction pipe with stand steel (base plate).
 - For each pump must supplied with (star-delta) starter contain :
 - One) Main isolating switch with fuses.
 - Two) Contactors, overload relay, timer.
 - Three) Phase failure.
 - Four) On front of steel cabinet, IP 56 indication lamp and push button, ampermeter with selector switch, voltmeter with selector switch.
 - Spare parts for each pump
 - a) Impeller
 - b) Shaft
 - Three) Set of ball bearing (pump and motor)
 - Motor power must equil (rated power + 10%) .

| No | Gov. Name | Project Name | Q (m ³ /hr) | H (m) | R.P.M | Shaft length (m) | Suc.di a. mm | Del. dia. mm |
|-----|----------------|--|---------------------------|----------|-------|---|-----------------|--------------------|
| 689 | Basrah | C Sewage lifting station | 1100 | 30 | 1450 | 2.1 | 300 | 250 |
| 690 | | Basrah Sewage T.P | 180 | 7.2 | 720 | 4.9 | 150 | 150 |
| 691 | | Basrah unified w.t.p.* | 1025 | 20 | 1480 | 6.2 | | |
| 692 | | Sewage station No. 14 | 900 | 20 | 1450 | 2.3 | 300 | 250 |
| 693 | | Sewage station No. 3 | 250 | 7 | 1450 | 1.75 | 200 | 150 |
| 694 | | Sewage station No.6& No.9 | A-450 | 7 | 1450 | 2.25 | 250 | 200 |
| | | | B-900 | 9 | 1450 | 2.25 | 300 | 250 |
| 695 | | Sewage station No. 16 &17 | 3000 | 12 | 980 | 2.45 | 500 | 500 |
| 696 | | The 25 AQUA CU.* | 1025 | 15 | 1480 | 6.2 | | 350 |
| 697 | Thiqar | Area Sew. Station | 500 | 10 | 970 | 5.1 | 250 | 200 |
| 698 | = | Nasseriah main sewage lifting stat. | 1700 | 10 | 735 | 6.15 | 400 | 350 |
| 699 | = | Nasseriah main sewage lifting stat. | 4000 | 10 | 585 | 4.6 | 600 | 550 |
| 700 | = | Nasseriah Sewa. T.P | 250 | 20 | 970 | 7.2 | 250 | 200 |
| 701 | = | Nasseriah Sewa. T.P | 1000 | 10 | 975 | Direct link (Noshaft) | 300 | 250 |
| 702 | = | Nasseriah Sewa. T.P | 500 | 10 | 970 | direct link (Noshaft) | 250 | 200 |
| 703 | = | | 1080 | 20 | 900 | | | |
| 704 | = | | 360 | 20 | 900 | | | |
| 705 | Thiqar | | 720 | 20 | 900 | | | |
| 706 | = | | 540 | 20 | 900 | | | |
| 707 | = | Sewage station | 180 | 20 | 900 | | | |
| 708 | = | Sewage station | 1800 | 20 | 900 | | | |
| 709 | Najaf | AL-Najaf sew. Project | 1746 | 11.5 | 980 | | | |
| 710 | | AL-Najaf sew. Project | 90 | 12 | 960 | | | |
| 711 | | AL-Najaf sew. Project | 162 | 12.5 | 1450 | motor direct couple d to the pump | | |
| 712 | | New Water T.P | 1630 | 12 | 950 | | | |
| 713 | AL- Muthana | ALQitar Boosting Station | 100 | 34 | 2900 | | | |
| 714 | Nenewa | AL-Mosul (left bank)* w.t.p. | 2200 | 40 | 900 | 13.390 | 500 | 500 |
| 715 | = | AL-Mosul (left bank)* w.t.p. | 2200 | 40 | 998 | | 500 | 500 |
| 716 | = | Dindan W.T.P | 450 | 15 | | | | |

| No | Gov. Name | Project Name | Q (m ³ /hr) | H (m) | R.P.M . | Shaft length (m) | Suc.di a. mm | Del. dia. mm |
|-----|-----------|------------------|---------------------------|----------|------------|---|-----------------|--------------------|
| 717 | = | Left bank W.T.P | 1600 | 10 | 1450 | | | |
| 718 | | | 435 | 20 | 1500 | | | |
| 719 | Babil | Hilla sew. T.P | 180 | 20 | 1500 | motor direct couple d to the pump | | |
| 720 | = | Sewage station | 4140 | 16 | 1500 | | | |
| 721 | Qaddisyia | Diwanya Sewage | 432 | 18 | 1475 | | 10 | 225 |
| 722 | = | Qaddisyia Sewage | 325 | 14 | 970 | | 225 | 150 |
| 723 | Salahdeen | Brawjly Borehole | 50 | 132 | 2900 | | | |
| 724 | | Brawjly W.T.P | 50 | 40 | 2900 | | | |
| 725 | | Brawjly Borehole | 50 | 132 | 2900 | | | |

(*): mixflow pump

III Ball Bearings

(Excluding all items that may be notifiable under resolution 1051)

| No | Gov. name | Ball Bearing no. |
|-----|-----------|------------------|
| 726 | Nenewa | 29324 |
| 727 | = | 6026 |
| 728 | = | 7317 |
| 729 | = | 6317 |
| 730 | = | 6224 |
| 731 | = | 7224 |
| 732 | = | 6226 |
| 733 | = | 7310 |
| 734 | = | 7312 |
| 735 | = | 7313 |
| 736 | = | 6316 |
| 737 | = | 6318 |
| 738 | = | 6319 |
| 739 | = | 6320 |
| 740 | = | 6322 |
| 741 | = | N4 224 E |
| 742 | = | N3 22N |
| 743 | = | N 312 E |
| 744 | = | N4 322 |
| 745 | = | N4 317 |
| 746 | = | N4 318 |
| 747 | = | N4 319 |
| 748 | = | 6220 |
| 749 | = | 6211 |
| 750 | = | 7214 |
| 751 | = | 6217 |
| 752 | = | 6222 |
| 753 | = | 6314 |
| 754 | = | 6216 |
| 755 | = | 6212 |
| 756 | = | 6306 |
| 757 | = | 6311 |
| 758 | = | 6406 |
| 759 | = | 6308 |
| 760 | = | 6312 |
| 761 | = | 6307 |
| 762 | = | 6309 |
| 763 | = | 6312 |
| 764 | = | 6313 |
| 765 | = | 6411 |
| 766 | = | 6305 |
| 767 | = | 6209 |

| No | Gov. name | Ball Bearing no. |
|-----|-----------|------------------|
| 768 | = | N4 215 |
| 769 | nenewa | 3312 |
| 770 | Baghdad | 6311 |
| 771 | = | 6308 |
| 772 | = | 6315 |
| 773 | = | 6305 |
| 774 | = | 6306 |
| 775 | = | 6206 |
| 776 | = | 6309 |
| 777 | = | 6310 |
| 778 | = | 6216 |
| 779 | = | 6312 |
| 780 | = | 6414 |
| 781 | = | 6217 |
| 782 | = | 6313 |
| 783 | = | 6205 |
| 784 | = | 6307 |
| 785 | = | 6313 C3 |
| 786 | = | N 216 - E CP |
| 787 | = | 6209 C3 |
| 788 | = | 6314 |
| 789 | = | N 317 |
| 790 | = | 6310 C3 |
| 791 | Najaf | 6311 |
| 792 | = | 6322 |
| 793 | = | 6319 |
| 794 | = | 7314 |
| 795 | = | 6314 |
| 796 | = | 6212 |
| 797 | = | 6306 |
| 798 | = | 6309 |
| 799 | = | 6324 |
| 800 | = | 6317 |
| 801 | = | 6307 |
| 802 | = | 6313 |
| 803 | = | 6316 |
| 804 | = | 6320 |
| 805 | = | 6311 |
| 806 | = | 6315 |
| 807 | = | 313 NU |
| 808 | = | 315 |
| 809 | Kerbala | MJ 2 1/2 |
| 810 | = | 6320 |
| 811 | = | 6414 |
| 812 | = | 6314 |
| 813 | = | N U 318 |
| 814 | = | 6318 |
| 815 | = | 6307 |

| No | Gov. name | Ball Bearing no. |
|-----|-----------|------------------|
| 816 | Kerbala | 6306 |
| 817 | = | 6206 |
| 818 | = | 6308 |
| 819 | = | 6310 |
| 820 | = | 6307 |
| 821 | = | 6311 |
| 822 | = | 6312 |
| 823 | = | 6411 |
| 824 | AL-Anbar | 6410 |
| 825 | = | 6305 |
| 826 | = | 7311 |
| 827 | = | 314 N S |
| 828 | = | R M S 14 |
| 829 | = | R M S 159 / 16 |
| 830 | = | 1 / 4 / 3 |
| 831 | = | 1 / 4 / 1 |
| 832 | = | 6204 |
| 833 | = | 6304 |
| 834 | = | 6310 |
| 835 | = | 6209 |
| 836 | = | 6321 |
| 837 | = | 6317 |
| 838 | = | 6318 |
| 839 | = | 7321 |
| 840 | = | 6224 |
| 841 | = | N S 624 |
| 842 | = | 6315 |
| 843 | = | 6312 |
| 844 | = | 6307 |
| 845 | = | 6306 |
| 846 | = | 7310 |
| 847 | = | 3301 |
| 848 | = | 3310 |
| 849 | = | 6000 |
| 850 | = | 6205 |
| 851 | = | 6206 |
| 852 | = | 6308 |
| 853 | = | 6309 |
| 854 | = | 6311 |
| 855 | = | 6300 |
| 856 | = | 6312 |
| 857 | = | 6313 |
| 858 | = | 6406 |
| 859 | = | 216 |
| 860 | = | 212 |
| 861 | = | 309 |
| 862 | = | 7320 |
| 863 | AL-Anbar | NU 320 |

| No | Gov. name | Ball Bearing no. |
|-----|-----------|------------------|
| 864 | = | NU 318 |
| 865 | = | NU 311 |
| 866 | = | 3311 |
| 867 | Qadissia | 6216 |
| 868 | = | 6310 |
| 869 | = | 6314 ZZ |
| 870 | = | 6216 Z Z |
| 871 | = | 6312 2 R S |
| 872 | = | 6211 |
| 873 | = | NU - 22125 |
| 874 | = | 3211 |
| 875 | = | 6315 / C3 |
| 876 | = | NU 2305 |
| 877 | = | 56207 NA |
| 878 | = | FG 207 |
| 879 | = | 22216 H C |
| 880 | = | NU P 309 E N |
| 881 | = | 63062 Z |
| 882 | = | 30207 |
| 883 | = | 6308 2 R S |
| 884 | = | 6317 C 3 |
| 885 | = | 6320 C 3 |
| 886 | = | 6321 |
| 887 | = | N 321 |
| 888 | = | 6217 |
| 889 | = | N 217 |
| 890 | = | 6309 |
| 891 | = | 6311 |
| 892 | = | 6316 |
| 893 | = | 6305 |
| 894 | = | 6414 |
| 895 | = | 6313 |
| 896 | = | NU 316 |
| 897 | = | NU 314 |
| 898 | = | NU 2220 |
| 899 | = | 6220 C3 |
| 900 | = | 7316 B |
| 901 | = | NU 320 |
| 902 | = | 23026 E S |
| 903 | = | 29426 E |
| 904 | = | 31315 |
| 905 | = | 2316 NU |
| 906 | = | 23230 |
| 907 | = | 22316 C |
| 908 | = | 24152 C |
| 909 | = | 24136 C |
| 910 | Qadissia | 7310 B |
| 911 | = | 7310 C3 |

| No | Gov. name | Ball Bearing no. |
|-----|-----------|------------------|
| 912 | = | 7312 C3 |
| 913 | Tameem | 6310 |
| 914 | = | 6309 |
| 915 | = | 6308 |
| 916 | = | 6307 |
| 917 | = | 6311 |
| 918 | = | 6305 |
| 919 | = | 6306 |
| 920 | = | 6315 |
| 921 | = | 6322 |
| 922 | = | 6210 |
| 923 | = | 6312 |
| 924 | Mesaan | 6305 |
| 925 | = | 6306 |
| 926 | = | 6308 |
| 927 | = | 6309 |
| 928 | = | 6310 |
| 929 | = | 6311 |
| 930 | = | 6411 |
| 931 | = | 6410 |
| 932 | = | 6314 |
| 933 | = | 6315 |
| 934 | = | 6316 |
| 935 | = | 6317 |
| 936 | Muthana | 6312 C3 |
| 937 | = | 7314 |
| 938 | = | N 314 |
| 939 | = | 6308 C3 |
| 940 | = | 1- 1 / 4 |
| 941 | = | N 1 1 / 4 |
| 942 | = | N U 222 |
| 943 | = | 6217 |
| 944 | = | 6306 |
| 945 | = | 6308 |
| 946 | = | 6312 |
| 947 | = | 6305 |
| 948 | = | G 204 |
| 949 | = | 6212 |
| 950 | = | 6208 |
| 951 | = | 6206 |
| 952 | = | 6315 |
| 953 | = | 6316 |
| 954 | = | 6317 |
| 955 | = | 7314 B |
| 956 | = | 314 N |
| 957 | Muthana | 222 N |
| 958 | = | 6309 |
| 959 | = | 6310 |

| No | Gov. name | Ball Bearing no. |
|------|-----------|------------------|
| 960 | = | 6307 |
| 961 | Basrah | 692 Z1 |
| 962 | = | 6407 Z2 |
| 963 | = | 6211 Z2 |
| 964 | = | 6410 Z2 |
| 965 | = | 6314 Z2 |
| 966 | = | 6309 Z2 |
| 967 | = | 6294 Z2 |
| 968 | = | 6313 Z2 |
| 969 | = | 6308 Z2 |
| 970 | = | 6209 Z2 |
| 971 | = | 6305 Z2 |
| 972 | = | 6210 Z2 |
| 973 | = | 6310 Z2 |
| 974 | = | 6306 Z2 |
| 975 | = | 6406 Z1 |
| 976 | = | 6311 Z2 |
| 977 | = | 6312 Z2 |
| 978 | = | 214 N |
| 979 | = | 6307 Z2 |
| 980 | = | 6315 Z2 |
| 981 | = | 6206 Z2 |
| 982 | = | 6205 Z2 |
| 983 | = | 6202 Z2 |
| 984 | = | 6203 Z3 |
| 985 | Wasit | 6305 |
| 986 | = | 6306 |
| 987 | = | 6307 |
| 988 | = | 6308 |
| 989 | = | 6309 |
| 990 | = | 6310 |
| 991 | = | 6311 |
| 992 | = | 6312 |
| 993 | = | 6313 |
| 994 | = | 6314 |
| 995 | = | 6315 |
| 996 | = | 6316 |
| 997 | = | 6317 |
| 998 | = | 6318 |
| 999 | = | 6319 |
| 1000 | = | 6320 |
| 1001 | = | 6205 |
| 1002 | = | 6206 |
| 1003 | = | 6207 |
| 1004 | Wasit | 6208 |
| 1005 | = | 6209 |
| 1006 | = | 6210 |
| 1007 | = | 6211 |

| No | Gov. name | Ball Bearing no. |
|------|-----------|------------------|
| 1008 | = | 6212 |
| 1009 | = | 6213 |
| 1010 | = | 6214 |
| 1011 | = | 6215 |
| 1012 | = | 3305 |
| 1013 | = | 3306 |
| 1014 | = | 3307 |
| 1015 | = | 3308 |
| 1016 | = | 3309 |
| 1017 | = | 3310 |
| 1018 | = | 3311 |
| 1019 | = | 3312 |
| 1020 | = | 3313 |
| 1021 | = | 3314 |
| 1022 | = | 3315 |
| 1023 | = | 3316 |
| 1024 | = | 3317 |
| 1025 | = | 3318 |
| 1026 | = | 3319 |
| 1027 | = | 3320 |
| 1028 | = | 7305 |
| 1029 | = | 7306 |
| 1030 | = | 7307 |
| 1031 | = | 7308 |
| 1032 | = | 7309 |
| 1033 | = | 7310 |
| 1034 | = | 7311 |
| 1035 | = | 7312 |
| 1036 | = | 7313 |
| 1037 | = | 7314 |
| 1038 | Diala | 6308 |
| 1039 | = | 6315 |
| 1040 | = | 6309 |
| 1041 | = | 6305 |
| 1042 | = | 6207 |
| 1043 | = | 6209 |
| 1044 | = | 6307 |
| 1045 | = | 6310 |
| 1046 | = | 6312 |
| 1047 | = | 6313 |
| 1048 | = | 6409 |
| 1049 | = | 6306 |
| 1050 | = | R MS 14 |
| 1051 | Diala | 6216 |
| 1052 | = | 6204 |
| 1053 | = | 6316 |
| 1054 | = | 6206 |
| 1055 | = | 6208 |

| No | Gov. name | Ball Bearing no. |
|------|-------------|------------------|
| 1056 | = | 633 L Z |
| 1057 | = | 6410 |
| 1058 | = | 6304 |
| 1059 | = | R M S 10 |
| 1060 | = | R M S 12 |
| 1061 | Salaheldeen | 6305 |
| 1062 | = | 6307 |
| 1063 | = | 6308 |
| 1064 | = | 6311 |
| 1065 | = | 6313 |
| 1066 | = | 6315 |
| 1067 | = | 6317 |
| 1068 | = | 6318 |
| 1069 | = | 6319 |
| 1070 | = | 6406 |
| 1071 | = | 6411 |
| 1072 | = | 6312 |
| 1073 | = | N U 317 |
| 1074 | = | N U 319 |
| 1075 | = | NU 322 |
| 1076 | = | N U 318 |
| 1077 | = | 6205 |
| 1078 | = | 6208 |
| 1079 | = | 6210 |
| 1080 | = | 6212 |
| 1081 | = | N U 315 |
| 1082 | = | R M S 10 |
| 1083 | = | R M S 16 / 15 |
| 1084 | = | 2 R S 6309 |
| 1085 | = | 2 R S 6307 |
| 1086 | = | 2 R S 6306 |
| 1087 | = | 2 R S 6308 |
| 1088 | = | M J I 3 / 4 |
| 1089 | = | N U 319 |
| 1090 | = | N U 219 |
| 1091 | = | 7316 |
| 1092 | = | N 212 |
| 1093 | = | N 313 |
| 1094 | = | 6310 |
| 1095 | = | 6309 |
| 1096 | = | 6314 |
| 1097 | = | 6308 |
| 1098 | Salaheldeen | 7309 |
| 1099 | = | 7310 |
| 1100 | = | 7311 |
| 1101 | = | 7312 |
| 1102 | = | 7314 |
| 1103 | = | N 324 |

| No | Gov. name | Ball Bearing no. |
|------|-----------|------------------|
| 1104 | = | 6306 |
| 1105 | = | N U 312 |
| 1106 | = | 6313 |
| 1107 | = | N U 215 |
| 1108 | = | N U 216 |
| 1109 | = | 1 3 / 4 |
| 1110 | = | 6317 |
| 1111 | = | 6206 |
| 1112 | = | R M S 14 |
| 1113 | = | M Z T 13 / 19 |
| 1114 | = | 6319 NU |
| 1115 | = | 6318 NU |
| 1116 | Thiqar | 6004 |
| 1117 | = | 6206 |
| 1118 | = | 6305 |
| 1119 | = | 6306 |
| 1120 | = | 6307 |
| 1121 | = | 6308 |
| 1122 | = | 6309 |
| 1123 | = | 6310 |
| 1124 | = | 6311 |
| 1125 | = | 6312 |
| 1126 | = | 6313 |
| 1127 | = | 6314 |
| 1128 | = | 6315 |
| 1129 | = | 6316 |
| 1130 | = | 6317 |
| 1131 | = | 6207 |
| 1132 | = | 6208 |
| 1133 | = | 6209 |
| 1134 | = | 6210 |
| 1135 | = | 6215 |
| 1136 | = | 6217 |
| 1137 | = | 6406 |
| 1138 | = | 6405 |
| 1139 | = | 3318 |
| 1140 | = | 2211 |
| 1141 | = | 22320 |
| 1142 | = | N U 320 / C3 |
| 1143 | = | N U 318 |
| 1144 | = | 3216 |
| 1145 | Thiqar | 3313 |
| 1146 | = | 220 |
| 1147 | = | N U 218 |
| 1148 | = | 217 |
| 1149 | = | 7317 |
| 1150 | = | 216 |
| 1151 | = | 23026 |

| No | Gov. name | Ball Bearing no. |
|-----------|------------------|-------------------------|
| 1152 | = | 32318 |
| 1153 | = | 2317 |
| 1154 | = | 7411 |
| 1155 | = | 6416 |
| 1156 | = | 7320 |
| 1157 | = | 2209 |
| 1158 | = | 7409 |
| 1159 | = | N 319 |
| 1160 | = | 6319 |
| 1161 | = | N 207 |
| 1162 | = | N 205 |
| 1163 | = | 6318 |
| 1164 | = | 6324 |
| 1165 | = | 2307 |
| 1166 | = | 6328 |
| 1167 | = | 3211 |
| 1168 | = | 6211 |
| 1169 | = | 6212 |
| 1170 | = | 5305 |
| 1171 | = | 6034 |
| 1172 | = | 1305 |
| 1173 | = | 3406 |

IV: ELECTRICAL MATERIALS

(Excluding all items that may be notifiable under resolution 1051)

IV-A GWSA

STARTERS

Starters as follows (Rating in Amper) with type indicated

| No | Starters Type | Rating (A) |
|-----------|------------------------------|-----------------------|
| 1174 | S-D | 500 |
| 1175 | S-D | 400 |
| 1176 | S-D | 350 |
| 1177 | S-D | 320 |
| 1178 | S-D | 300 |
| 1179 | S-D | 250 |
| 1180 | S-D | 220 |
| 1181 | S-D | 200 |
| 1182 | S-D | 180 |
| 1183 | S-D | 160 |
| 1184 | S-D | 140 |
| 1185 | S-D | 120 |
| 1186 | S-D | 110 |
| 1187 | S-D | 100 |
| 1188 | S-D | 90 |
| 1189 | S-D | 80 |
| 1190 | S-D | 75 |
| 1191 | S-D | 60 |
| 1192 | S-D | 50 |
| 1193 | S-D | 45 |
| 1194 | S-D | 30 |
| 1195 | S-D | 22 |
| 1196 | S-D | 15 |
| 1197 | S-D | 11 |
| 1198 | DOL | 8 |
| 1199 | DOL | 6 |
| 1200 | S-R (5 STAGE) WITH IMPEDANCE | 1100 |
| 1201 | S-R (5 STAGE) WITH IMPEDANCE | 1300 |
| 1202 | S-D | 1000 |

Electric Motors

| No | Governorate | | Project Name | KW | r.p.m | Type |
|------|-------------|----------|--------------------------|------|-------|-------|
| | | Name | | | | |
| 1203 | | Wasit | 1/ 4 million gallon C.U | 30 | 1500 | S.C |
| 1204 | | Muothana | Rumaitha W.T.P | 5.5 | 1500 | V.S.C |
| 1205 | | = | Rumaitha W.T.P * | 0.15 | 1180 | S.C |
| 1206 | | Basrah | Karma C.U (1) | 0.55 | 2900 | V.S.C |
| 1207 | | = | R.O / W.P.S | 160 | 1500 | S.C |
| 1208 | | = | Karma C.U (2) | 0.37 | 2900 | V.S.C |
| 1209 | | = | Kore -Al-Zber W.T.P | 18.5 | 2930 | S.C |
| 1210 | | = | Kore -Al-Zber W.T.P | 4 | 1500 | V.S.C |
| 1211 | | = | Kore -Al-Zber W.T.P | 0.55 | 1500 | V.S.C |
| 1212 | | = | Kore -Al-Zber W.T.P | 1.1 | 1500 | V.S.C |
| 1213 | | = | Al-Mudina W.T.P | 45 | 1500 | S.C |
| 1214 | | = | Compact Unite | 55 | 1500 | S.C |
| 1215 | | = | R.O / W.P.S | 315 | 1500 | S.C |
| 1216 | | = | R.O / W.P.S | 220 | 1500 | S.C |
| 1217 | | = | AQUA C.U. | 7.5 | 1500 | S.C |
| 1218 | | = | (25) million Project | 18.5 | 1500 | S.C |
| 1219 | | Missan | Unified W.T.P | 120 | 1500 | S.C |
| 1220 | | = | Unified W.T.P | 90 | 1500 | S.C |
| 1221 | | = | 1/ 4 million gallon C.U | 18.5 | 1500 | S.C |
| 1222 | | = | 1/ 4 million gallon C.U | 45 | 1500 | S.C |
| 1223 | | = | Unified Project | 37.5 | 1000 | S.C |
| 1224 | | = | Al-Rafidan W.T.P | 37.5 | 1500 | S.C |
| 1225 | | = | Raw Water B.S | 150 | 750 | S.C |
| 1226 | | Diala | Baquba W.T.P | 185 | 1500 | S.C |
| 1227 | | = | Baquba W.T.P | 110 | 1500 | S.C |
| 1228 | | = | Baquba W.T.P | 90 | 1500 | S.C |
| 1229 | | = | Baquba W.T.P | 75 | 1500 | S.C |
| 1230 | | = | Baquba W.T.P | 55 | 1500 | S.C |
| 1231 | | = | Baquba W.T.P | 37 | 1500 | S.C |
| 1232 | | = | Baquba W.T.P | 15 | 1000 | S.C |
| 1233 | | = | Kanaan W.T.P | 30 | 1000 | S.C |
| 1234 | | = | Kanaan W.T.P | 7.5 | 1400 | S.C |
| 1235 | | = | Baldroz | 6 | 1000 | S.C |
| 1236 | | = | Al-Khalis * | 1.5 | 1500 | S.C |
| 1237 | | = | Baldroz | 3 | 1000 | V.S.C |
| 1238 | | = | Al-Saadiya W.T.P * | 3.5 | 1000 | S.C |
| 1239 | | = | Kan Beni - Saad * | 2 | 1000 | S.C |
| 1240 | | = | Kan Beni - Saad * | 4 | 1000 | V.S.C |
| 1241 | | = | Kan Beni - Saad * | 5 | 1000 | V.S.C |
| 1242 | | = | Jalawla W.T.P | 1 | 1500 | S.C |
| 1243 | | = | Jalawla W.T.P | 59 | 1500 | S.C |
| 1244 | | Nenewa | Motor for electric Valve | 0.34 | 1350 | S.C |
| 1245 | | Nenewa | Motor for electric Valve | 0.55 | 900 | S.C |
| 1246 | | = | Motor for electric Valve | 0.27 | 900 | S.C |

| No | Governorate | | Project Name | KW | r.p.m | Type |
|------|-------------|------------|------------------------------------|------|-------|-------|
| | | Name | | | | |
| 1247 | | = | Motor for electric Valve | 0.13 | 1400 | S.C |
| 1248 | | = | Motor for electric Valve | 0.18 | 1400 | S.C |
| 1249 | | = | Mousal Right Bank W.T.P * | 510 | 1500 | S.C |
| 1250 | | = | | 510 | 1500 | S.C |
| 1251 | | = | | 250 | 1500 | S.C |
| 1252 | | = | | 200 | 1500 | S.C |
| 1253 | | = | | 185 | 1500 | S.C |
| 1254 | | = | | 160 | 1500 | S.C |
| 1255 | | = | | 120 | 1500 | S.C |
| 1256 | | = | | 100 | 1500 | S.C |
| 1257 | | = | | 75 | 1500 | S.C |
| 1258 | | = | | 50 | 1500 | S.C |
| 1259 | | = | | 37.5 | 1500 | S.C |
| 1260 | | = | | 25 | 1500 | S.C |
| 1261 | | = | | 18.5 | 1500 | S.C |
| 1262 | | = | | 12.5 | 1500 | S.C |
| 1263 | | = | | 7.5 | 1500 | S.C |
| 1264 | | Tameem | Bor -holles (submersible) | 15 | 3000 | V.S.C |
| 1265 | | = | Bor -holles (submersible) | 22 | 3000 | V.S.C |
| 1266 | | Salahelden | Bafaq C.U * | 3 | 3000 | S.C |
| 1267 | | = | Al-Shirqad W.T.P | 75 | 1500 | S.C |
| 1268 | | = | Al-Shirqad W.T.P | 37.5 | 1500 | S.C |
| 1269 | | = | Al-Shirqad W.T.P | 18.5 | 1500 | S.C |
| 1270 | | = | Old Al-Shirqad W.T.P | 15 | 1500 | S.C |
| 1271 | | = | Old Al-Shirqad W.T.P | 11 | 1500 | S.C |
| 1272 | | = | Old Al-Shirqad W.T.P | 7.5 | 1500 | S.C |
| 1273 | | = | Talol Al-Baaj | 160 | 3000 | S.C |
| 1274 | | = | Al-Jarnaf C.U. | 60 | 1500 | S.C |
| 1275 | | = | Al-Shirqad No. (2) | 22 | 1500 | S.C |
| 1276 | | = | Baaja C.U. | 18.5 | 1500 | S.C |
| 1277 | | = | Al-Shirqad No. (2) | 15 | 1500 | S.C |
| 1278 | | = | Bafaq C.U. in Al-Dor * | 3 | 3000 | S.C |
| 1279 | | Baghdad | Al-Rashedya w.t.p for scraper * | 1.5 | 1500 | S.C |
| 1280 | | Najaf | Sewage Project | 5.5 | 1500 | V.S.C |
| 1281 | | = | Sewage Project | 7.5 | 1500 | V.S.C |
| 1282 | | Qadissia | Diwanyah W.T.P | 90 | 1500 | S.C |
| 1283 | | = | Diwanyah W.T.P | 250 | 1500 | S.C |
| 1284 | | = | Diwanyah W.T.P | 75 | 1500 | S.C |
| 1285 | | = | 1/ 4 million gallon C.U | 18.5 | 3000 | S.C |
| 1286 | | Qadissia | Diwanyah W.T.P | 5.5 | 1500 | S.C |
| 1287 | | = | Diwanyah W.T.P | 11 | 1500 | S.C |
| 1288 | | = | Diwanyah W.T.P | 2.2 | 1000 | V.S.C |
| 1289 | | = | Sewage Project | 45 | 1500 | V.S.C |
| 1290 | | Qadissia | Sewage Project | 1.1 | 1500 | V.S.C |
| 1291 | | = | Diwanyah B.S | 7.5 | 1500 | S.C |
| 1292 | | = | Diwanyah W.T.P | 45 | 1500 | V.S.C |

| No | Governorate | | Project Name | KW | r.p.m | Type |
|------|-------------|-------|--------------------------------|-----|-------|-------|
| | | Name | | | | |
| 1293 | | Anbar | west desert (B4) | 670 | 1500 | S.R |
| 1294 | | = | west desert (all pump station) | 540 | 1500 | S.R |
| 1295 | | = | west desert (A1) | 450 | 1500 | V.S.C |
| 1296 | | = | west desert (T.P) | 100 | 1500 | S.C |
| 1297 | | = | west desert (T.P) / P.S | 11 | 1500 | S.C |
| 1298 | | = | west desert (B6) | 380 | 1500 | S.C |
| 1299 | | = | west desert (T.P) | 7.5 | 3000 | S.C |
| 1300 | | = | west desert (B) | 160 | 1500 | S.C |

** THE MOTOR MUST BE WITH FLANGE .*

Wire Winding For Electrical Motors

| No | Standard | size |
|-----------|-----------------|-------------|
| 1301 | 32 | 0.28 |
| 1302 | 31 | 0.29 |
| 1303 | 30 | 0.31 |
| 1304 | 29 | 0.35 |
| 1305 | 28 | 0.38 |
| 1306 | 27 | 0.43 |
| 1307 | 26 | 0.47 |
| 1308 | 25.5 | 0.48 |
| 1309 | 25 | 0.5 |
| 1310 | 24.5 | 0.54 |
| 1311 | 24 | 0.56 |
| 1312 | 23 | 0.61 |
| 1313 | 22 | 0.71 |
| 1314 | 21.5 | 0.75 |
| 1315 | 21 | 0.81 |
| 1316 | 20 | 0.9 |
| 1317 | 19.5 | 0.95 |
| 1318 | 19 | 1 |
| 1319 | 18.5 | 1.12 |
| 1320 | 18 | 1.20 |
| 1321 | 17.5 | 1.3 |
| 1322 | 17 | 1.4 |

Circuit breaker

- Air circuit breaker moulded case 380v , 50H7 , 3phase 3pole with thermal over load, magnetic short circuit protection breaker from 1600 A will be motorized type.
- Circuit breaker from 1600 A will be motorized type .
- Mininture Circuit breaker from (25)A and below.
- Breaking capacity as follows :
 - a- Circuit breaker rating 1000 A and above (100)KA.
 - b- Circuit breaker below 1000 A to (300 A) 50 KA .
 - c- Circuit breaker below 300 A will be 30 KA.

| No | Rabing(A) |
|------|-------------|
| 1323 | 10 |
| 1324 | 16 |
| 1325 | 20 |
| 1326 | 25 |
| 1327 | 32 |
| 1328 | 40 |
| 1329 | 63 |
| 1330 | 80 |
| 1331 | 100 |
| 1332 | 150 |
| 1333 | 160 |
| 1334 | 200 |
| 1335 | 250 |
| 1336 | 300 |
| 1337 | 400 |
| 1338 | 500 |
| 1339 | 800 |
| 1340 | 1000 |
| 1341 | 1250 |
| 1342 | 1600 |
| 1343 | 2000 |
| 1344 | 2500 |
| 1345 | 3200 |
| 1346 | 4000 |
| 1347 | 5000 |

Contactors

| No | Rating | Voltage of coil |
|-----------|---------------|------------------------|
| | (A) | (V) |
| 1348 | 400 | SF6 (3.3kv) |
| 1349 | 700 | 380 |
| 1350 | 600 | 380 |
| 1351 | 450 | 380 |
| 1352 | 400 | 380 |
| 1353 | 330 | 380 |
| 1354 | 300 | 380 |
| 1355 | 210 | 380 |
| 1356 | 180 | 380 |
| 1357 | 150 | 380 |
| 1358 | 120 | 380 |
| 1359 | 100 | 380 |
| 1360 | 80 | 380 |
| 1361 | 63 | 380 |
| 1362 | 45 | 380 |
| 1363 | 20 | 380 |
| 1364 | 16 | 380 |
| 1365 | 630 | 220 |
| 1366 | 500 | 220 |
| 1367 | 450 | 220 |
| 1368 | 400 | 220 |
| 1369 | 350 | 220 |
| 1370 | 300 | 220 |
| 1371 | 280 | 220 |
| 1372 | 250 | 220 |
| 1373 | 225 | 220 |
| 1374 | 200 | 220 |
| 1375 | 180 | 220 |
| 1376 | 160 | 220 |
| 1377 | 150 | 220 |
| 1378 | 125 | 220 |
| 1379 | 100 | 220 |
| 1380 | 80 | 220 |
| 1381 | 63 | 220 |
| 1382 | 50 | 220 |
| 1383 | 40 | 220 |
| 1384 | 30 | 220 |
| 1385 | 25 | 220 |
| 1386 | 20 | 220 |
| 1387 | 16 | 220 |
| 1388 | 10 | 220 |

IV-B ELECTRICAL SUPPLIES (BWSA)

| MEASUREMENT EQUIPMENT | |
|-----------------------|---|
| 1389 | DIGITAL MULTIMETER FOR ELECTRICAL MEASUREMENTS - APPROVED TO ISO 9002 - IMPACT RESISTANT WITH SUITABLE CAX - OVER LOAD PROTECTION AND RUSED ON ALL RANGES - MEASUREMENT RANGE : DC VOLTAGE 400mv – 1000 v <div style="text-align: right; margin-top: 10px;"> AC VOLTAGE 400mv - 750 v DC CURRENT 4mA - 10A AC CURRENT 4mA - 10A RESISTANCE 400Ω - 40 M Ω CAPACITANCE 4nf=1uf </div> BATTERY : 1.5 V DC |
| 1390 | DIGITAL CLIP - ON AMMETER - MEASURES LARGE CURRENT INTENSIMES : <div style="text-align: right; margin-top: 5px;"> 0-200-200A,AC,DC AC VOLTAGE 0 - 750 v DC VOLTAGE 0-200V RESISTANCE 0 - 2000 Ω </div> BATTERY : 9 V DC |
| 1391 | INSULATION TESTER TEST VOLTAGE : <div style="text-align: right; margin-top: 5px;"> 250V → 0-200 MOHM 500V → 0-200 MOHM 1000V → 0-2000 MOHM </div> WITH SUITABLE BAG \$LEADS |
| 1392 | HAND TACHOMETERS FOR BOTH CLOCKWISE \$ ANTI CLOCK WISE ROTATION - ACCURACY ± 0.1 R/MIN - DIGITAL DISPLAY (4 DIGITS) - MEASURING RANGE R/MIN : 5-19999 <div style="text-align: right; margin-top: 5px;"> M/MIN : 0.05 - 19999.9 </div> |
| 1393 | INDUSTRIAL THERMOMETER (INFRARED TYPE) - MEASURING RANG : 50 - + 150 C° - RESOLIETEAM : 0.1 - ACCURACY ± 1 - BATTERY : 9V DC |
| 1394 | TOOL KIT FOR ELECTRICIANS - WIRE STRIPPER , STRIPPING KNIFE. FOR CABLES , SCREWDRIVERS SET (BOTH STRAIGHT SLOT \$ PHILLIPS HEAD) , SIDE CUTTERS , WATER PUMP PLIERS , COMBINATION PLIERS , ROUND NOSE PHERS ALL IN SUITABLE TOOL BOX |

| | |
|------|---|
| 1395 | TOOL KIT FOR MECHANICAL WORK - HEXAGON SOCKET SET , TOINTEED SOCKER SPANNER SET PHILLIPS SCREW DRIVER SET , SLOT HEAD SCREW DRIVER SET, FLAT CHISEL , HAMMER , LONG NOSED PLIERS , COMBINATION PLIERS , UNIVERSAL PLIERS , PIPE WRENCH , CASSELTE WITH 19 HIGH SPEED DRILLS IN STEP OF 0.5 mm SAW , RING SPANNER SET , ALLEN KEY SET ALL IN SUITABLE TOOL BOX. |
|------|---|

| | |
|------|--|
| 1396 | ALL BEARING EXTRACTOR MANUAL TYPE WITH THREE SIZES ADJUSTABLE TYPE |
| 1397 | ALL BEARING EXTRACTOR HYDRAULIC TYPE WITH ALL ACCESSORIES |

| | |
|------|---|
| 1398 | DIGITAL CLAMP AMMETER FOR MEASURING CURRENT |
| 1399 | VOLTAGE PROBE ; AC & D.C VOLTAGES |
| 1400 | COMPLETE SET OF SPANNERS 8 MM TO 36MM |
| 1401 | COMPLETE SET OF RING SPANNERS 8MM TO 36 MM |
| 1402 | DIGITAL AVO 20 AMPS, 1000 VAC ,500VDC |
| 1403 | MEGGER 1000V |
| 1404 | COMPLETE SET SCREW DRIVERS |
| 1405 | HYDRAULIC BALL BEARING PULLER |
| 1406 | PIPE WRENCH 8,12,18,24,36,48 INCH |

| | |
|------|---|
| 1407 | CONTACTOR EH 100 55 KW 200 A 3POLE 415 V COIL 380-400 V 50 HZ |
| 1408 | CONTACTOR EH 90 55 KW 380-415 V COIL 380-400 V 50 HZ |
| 1409 | CONTACTOR EH 300 250 KW 380- 415 V COIL 380-400 V 50 HZ |
| 1410 | CONTACTOR EH 210 160 KW 380- 415 V COIL 380-400 V 50 HZ |
| 1411 | CONTACTOR EH 175 380- 415 V COIL 380-400 V 50 HZ |
| 1412 | FUSE CYL. EI 33 500V 10 A 3-PHASE 10X38 |
| 1413 | SEQUENCE RELAY EWS 8A 250V 3-PHASE |
| 1414 | YD RELAY Y 9A US 100-415V AC1 230 6A 400V 3.8A |
| 1415 | CURRENT TRANSFORMER TA 30 A 200/5 |
| 1416 | CURRENT TRANSFORMER TA 30 A 500/5 |
| 1417 | CURRENT TRANSFORMER A 300/5 |
| 1418 | AMMETER 300/5 A |
| 1419 | AMMETER 200/5 A RANGE (0-600A) |

| | |
|------|---|
| 1420 | OVER LOAD T135 DU RANG (80-110)A |
| 1421 | OVER LOAD T450 DU RANG (220-310)A |
| 1422 | OVER LOAD T200 DU RANG (150-200)A |
| 1423 | POWER SWITCH 500A IEC 947 |
| 1424 | POWER SWITCH 250A T200 K 11 IEC 947-3 SK616 |
| 1425 | POWER SWITCH 315A IT315 K 111 |
| 1426 | PUSH BOTTON GREEN SK 616 00-B ITH : 10A |
| 1427 | PUSH BOTTON SK 616 003-A 230 V MAX 2W |

| | |
|------|---|
| 1428 | CONTACTOR TYPE OKYM 5W22 STROMBERG ITH 400 A 415V |
| 1429 | CONTACTOR TYPE ASEA 800 A |
| 1430 | CONTACTOR TYPE ASEA 300 A |
| 1431 | CONTACTOR TYPE ASEA 200 A |

| | |
|------|------------------------------------|
| 1432 | PLUMMER BLOCK SKF. SN 216+1216 |
| 1433 | PLUMMER BLOCK SKF. SN 213+1213 |
| 1434 | SPHERICAL ROLLER BEARING 6322 |
| 1435 | BEARING 6310 |
| 1436 | BEARING 6307 |
| 1437 | BEARING 6207 |
| 1438 | BEARING 6315 |
| 1439 | BEARING 7318 |
| 1440 | BEARING 22216 |
| 1441 | BEARING 1209 |
| 1442 | NAC 205 |
| 1443 | BALL BEARING SKF 6307/C3 |
| 1444 | MOTOR BEARINGS SKF 6310/C3 |
| 1445 | BEARING 6214 |
| 1446 | BEARING FOR MOTOR 6322C3 |
| 1447 | BEARING FOR MOTOR 6313 C3 , 6312C3 |
| 1448 | BALL BEARING FOR MOTOR NO. 6317 C3 |
| 1449 | BALL BEARING FOR MOTOR NO. 6320 C3 |
| 1450 | THRNST BEARRING 6309 (SKF) |
| 1451 | LINE BEARING 6211 (SKF) |

| | |
|------|--|
| | LOW VOLTAGE (400 VAC, 3PH, 50HZ) AUTOMATIC OPERATION , (USING CONTECTORS OR CIRCUIT BREAKERS) SUTABLE FOR STAND BY GENERATORS MECHANICAL AND ELECTRICAL INTEROCKS TO PROVIDE SAFE OPERATION EITHER FROM MAIN OR GENERATOR INCLUDED IN SUTABLE BOARD TO BE WALL MOUNTED LUMP INDICATORS FOR VOLTAGE SOURS |
| 1452 | 400A |
| 1453 | 630A |
| 1454 | 1250A |
| 1455 | 800A |

V AIR COMPRESSORS

(Excluding all items that may be notifiable under resolution 1051)

Compressors with jack –Hammer

| No | Description |
|------|--|
| 1456 | Air Compressor With spare parts 360 ft/min |
| 1457 | Ditto but 250 ft/min . |
| 1458 | Ditto but 175 ft/min . |
| 1459 | Ditto but pressure (12 - 14) bar |

| | |
|---|------------------------|
| 1460 | AIR COMPRESSORS |
| 7 BAR T.M : 1250 MAX SPEED : 1000 R.P.M Q :81 M3/H | |

Air Blowers

| No | Capacity (m³/h) | Head (m) |
|-----------|---------------------------------------|---------------------|
| 1461 | 1600 | 10 |
| 1462 | 800 | 10 |
| 1463 | 600 | 10 |
| 1464 | 300 | 10 |
| 1465 | 400 | 10 |
| 1466 | 250 | 10 |
| 1467 | 200 | 10 |
| 1468 | 100 | 10 |

Thermal Over Load

| No | Rating (A) |
|-----------|-----------------------|
| 1469 | (480 - 510) |
| 1470 | (440-460) |
| 1471 | (240- 260) |
| 1472 | (190 - 220) |
| 1473 | (170- 200) |
| 1474 | (150-175) |
| 1475 | (140-160) |
| 1476 | (130- 150) |
| 1477 | (110-130) |
| 1478 | (105-125) |
| 1479 | (90 -110) |
| 1480 | (75- 105) |
| 1481 | (65- 80) |
| 1482 | (50- 70) |
| 1483 | (45 -57) |
| 1484 | (40 -80) |
| 1485 | (30 -50) |
| 1486 | (25 -35) |
| 1487 | (24 - 40) |
| 1488 | (20 - 60) |
| 1489 | (18 - 25) |
| 1490 | (15 -20) |
| 1491 | (9- 12) |

| No | Rating (A) |
|------|---------------|
| 1492 | (3 - 6) |
| 1493 | (0.5 - 1.5) |
| 1494 | (0.4-1) |

VI: SEWAGE SYSTEM EQUIPMENT AND PARTS

(Excluding all items that may be notifiable under resolution 1051)

| <i>SPARE PARTS FOR SEWAGE TREATMENT PLANTS</i> | |
|---|--|
| 1495 | Gear box : size MHT 2 Rating 1.5 kw output 71.3 rpm ratio 20.34:1 |
| 1496 | Gear box : size MHT 3 Rating 1.5 kw output 46 rpm ratio 31.48:1 |
| 1497 | TRANSFORMERS (INDUSTRIAL TYPE) INDOOR |
| 1498 | 3M.V.A , 11KV- 3.46KV |
| 1499 | 600 K.V.A, 3.3 KV – 400V |
| 1500 | 100 K.V.A , 3.3 KV – 400V |
| 1501 | 2 M.V.A , 11KV –400 V |
| 1502 | 750 K.V.A, 3.3KV –400V |
| 1503 | 1M .V.A, 11KV –400 V |
| 1504 | 250 K.V.A, 3.3 KV – 400V |
| 1505 | 500 K.V.A ,3.3 KV –400 V |
| 1506 | 1 M.V.A, 3.3KV – 400 V |
| 1507 | ELECTRICAL MOTORS |
| 1508 | Squirrel cage induction motor: 7.5 kw, 380v ,17.6 A, 975 RPM ,V1 , delta connection class F IP 55 |
| 1509 | Squirrel cage : 15 kw, 380v ,31 A, 1440 RPM ,V1 , delta connection class F IP 55 |
| 1510 | Slip ring : 105 HP ,3.3kv ,585 rpm, Ip 23,v1 ,Vrot = 400 Irat =119A class F |
| 1511 | Slip ring :,3.3kv 220kw,422 rpm, Ip 23 , Vrat 500 Irat =252A class F- |
| 1512 | Slip ring : 160 kw ,3.3kv ,492 rpm,V1 , class F- |
| 1513 | Slip ring : 400v,297 kw , ,585 rpm,V1 , (F1) class F- Ip 23 |
| 1514 | Slip ring : 160 kw ,3.3kv ,720 rpm,V1 , class F- Ip 23 |
| 1515 | Slip ring: 90 kw ,3.3kv ,720 rpm,V1 , class F- Ip 23 |

| | |
|------|---|
| 1516 | GRAPHITE BRUSHES : Copper –graphite brushes with flexible wire coated by anti corrosive metal : 60*40*30 mm |
| 1517 | AIR blowers roots type Capacity :1000m3/HR Power :30 kw Pressure:600 MBAR Speed : 1610 AIR blowers roots type Capacity :1000m3/HR Power :30 kw Pressure:600 MBAR Speed : 1610 Equipped with electric motor squirrel cage Power rate :30 kw 1500 RPM Ip55 class f 380 v 50 HZ |
| 1518 | AIR blowers roots type Capacity :4200m3/HR Power :110 kw Pressure:600 MBAR Speed : 1155 Equipped with electric motor squirrel cage Power rate :110 kw 1500 RPM Ip55 class f 380 v 50 HZ |
| 1519 | Wineflex coupling flexacier Length of seg . 155.9 mm Thicknass 4.06 mm Width.91.3mm Pitch no 1.48 |

EQUIPMENT FOR SEWAGE NETWORK REPAIRS

| | |
|------|---|
| 1520 | Trench Boxes for reliable shoring , depth of excavation up to 6.0 m, width up to 4.5m , pipe sizes up to 1000mm |
|------|---|

| Pipe stoppers for pipe diameters: | |
|--|---------|
| 1521 | 315 mm |
| 1522 | 400 mm |
| 1523 | 500 mm |
| 1524 | 600 mm |
| 1525 | 700 mm |
| 1526 | 800 mm |
| 1527 | 900 mm |
| 1528 | 1000 mm |

VII: SPARE PARTS FOR MOSUL WATER TREATMENT PLANTS

(Excluding all items that may be notifiable under resolution 1051)

Spare part for Mosul (left side) w.t.p.

| No | Item Description |
|------|---|
| 1529 | ASEA contactor, EH 9-10, Iec 158-1, Vdelta E 0660, AC3 220 , 380 V, Ith=25A, SK 812 003 for electrical generator 1250 K.V.A |
| 1530 | ASEA contactor, EH 6-22E, Iec 337-1, Vdelta E 0660, AC11 110-220 , 380 V, Ith=25A, SK 811 023 for electrical generator 1250 K.V.A |
| 1531 | ASEA flag relay, 5615 453-D, N=11000, D=0, 132 mm, R=460 OHM., RxsF 1, RK 271-003-AD for electrical generator 1250 K.V.A |
| 1532 | ASEA relay, RASA 4, RK861-001-BA, u1=u2, 110-120, V/220-240 V, 50-60 HZ., Df2 HZ. for electrical generator 1250 K.V.A |
| 1533 | Bearing centre sleeve, part No.(54.00).Dimension (TM80).Material (C45N) |
| 1534 | Bearing bush. part (54.50). Dimension (109/127x100). Material (Silicon-Carbid) |
| 1535 | Deflector. Part NO. (50.10). Dimension (00/146x16). Material (ULTRAMID) |
| 1536 | Impiller. Part NO. (23.00). Dimension (LA667x77). Material (1.4408) |
| 1537 | Shaft screw. Part NO.(90.42). Dimension (M10x20). Material (A4-70) |
| 1538 | Shaft sleeve. Part NO. (52.30). Dimension (91/109x100). Material (Silicon -Carbid) |
| 1539 | Shaft sleeve. Part NO. (52.40). Dimension (A86/95x170). Material (1.4021.05) |

VIII VEHICLE SPARE PARTS (Excluding all items that may be notifiable under resolution 1051) **VIII–A: Spare part for (Volvo , Cater pillar, Foun, Hino, Kawsaky) Cars & Equipment spare part of caterpillar equipment**

| No | Item. | p.No. | Des. |
|------|-------|---------|-----------------|
| 1540 | 1- | 5D 9553 | Cutting Edge |
| | 2- | IU 3301 | Cutting tip |
| | 3- | 2P 8889 | Cyl. Liner |
| | 4- | IW 6757 | Ring set. |
| | 5- | 6V 2209 | gasket Kit |
| | 6- | 6N 7005 | Nozzle |
| | 7- | 2W 6091 | Ring set. |
| | 8- | 8N 6000 | cylinder nead |
| | 9- | 1N 4304 | cylinder nead |
| | 10- | 1N1301 | cylinder nead |
| | 11- | 8N 1188 | cylinder nead |
| | 12- | 4N 6116 | Fule pump |
| | 13- | 6N 7527 | plunger bushing |
| | 14- | 4N 6860 | cartridge |
| | 15- | 8N 1831 | Nozzle |
| | 16- | 8N 5510 | Turbocharge |
| | 17- | 8J 0448 | Fuel inj. pump |
| | 18- | 4N 6859 | Turbo charge |
| | 19- | 7N 2834 | Kit |
| | 20- | 6N 9653 | Oil cooler |
| | 21- | 2S 8959 | Seal |
| | 22- | 8A 2252 | Piston |
| | 23- | 4N 6258 | Bearing |
| | 24- | 8S 7762 | Ring set |
| | 25- | 4V 7062 | Disk |
| | 26- | 8J 498 | Pump |
| | 27- | 4V 5415 | Kit |
| | 28- | 3T 3421 | Stator |
| | 29- | 6N 9915 | Valve |
| | 30- | 6N 9916 | Valve |
| | 31- | 1W 3058 | Water pump |
| | 32- | 1W 6756 | Air compressor |
| | 33- | 6H 2577 | Universal Joint |
| | 34- | 7N 128 | Oil cooler |
| | 35- | 7N 165 | Oil cooler |
| | 36- | 2P 0661 | Water pump |
| | 37- | 9S 8914 | Kit |
| | 38- | 5S 7232 | Valv |
| | 39- | 5S 6452 | Valv |

VIII-B: Spare Part Of Volvo Cars

| No | Item. | p.No. | Des. |
|------|-------|------------------|---------------------|
| 1541 | 1- | 275099 or 275036 | Cyl. Liner Kit |
| | 2- | 275551 | Gasket Kit |
| | 3- | 276122 or 275531 | Gasket |
| | 4- | 275304 | Piston ring Kit |
| | 5- | 467517 | Oil pump |
| | 6- | 276155 or 275570 | Oil pump Kit |
| | 7- | 270100 | Big end bearing Kit |
| | 8- | 270439 | Main bearing Kit |
| | 9- | 270101 | Big end bearing Kit |
| | 10- | 270440 | Main bearing Kit |
| | 11- | 1699789-467915 | Water pump |
| | 12- | 276802-275615 | Water pump Kit |
| | 13- | 423125 | Pulley |
| | 14- | 467466 | Fule inj. pump |
| | 15- | 243083 | Feed pump |
| | 16- | 240808 | pump unit |
| | 17- | 240423 | Delivery valver |
| | 18- | 243742 | Delivery valver |
| | 19- | 3826073-70703 | Hand pump |
| | 20- | 238896 | Nozzle |
| | 21- | 467309 | Turbo charge |
| | 22- | 465930-240340 | Start motor |
| | 23- | 240488 | Solenoid switch |
| | 24- | 240493-1578140 | Starter solenide |
| | 25- | 1624089 | Alternator |
| | 26- | 1610144 | Spring pin |
| | 27- | 244343 | Diode plate |
| | 28- | 1625880-244426 | Carbon brush Kit |
| | 29- | 1698433-244340 | Rotor |
| | 30- | 1527474-267143 | Clutch |
| | 31- | 267236-1668372 | Clutch |
| | 32- | 1668373-1526047 | Drive plate |
| | 33- | 1527693-267156 | Rel. bearing |
| | 34- | 1669488-1581209 | Master cylinder |
| | 35- | 273660 | Repair Kit |
| | 36- | 1673067 | Clutch serne |
| | 37- | 966458 | Nipple |
| | 38- | 271194-273447 | Repair Kit |
| | 39- | 232367 | Centre bearing |

| No | Item. | p.No. | Des. |
|-----------|--------------|-----------------|----------------|
| | 40- | 1587787 | Hydraulic pump |
| | 41- | 1695596 | Plate |
| | 42- | 1695592 | Shaft |
| | 43- | 1695594 | Rotor Kit |
| | 44- | 3090417-1695595 | Rotor Kit |
| | 45- | 150221 | Hub |
| | 46- | 1588406 | Screw |
| | 47- | 362166 | Nut |
| | 48- | 8151816-1584340 | Roller bearing |
| | 49- | 8151820-184088 | Roller bearing |
| | 50- | 1089552-1587792 | Seal ring |
| | 51- | 1608293-1581604 | Screw |
| | 52- | 8153600-1504951 | Relay |

VIII–C: Spare Part for Fouen Cars

| No | Item. | p.No. | Description. |
|------|-------|---------------|----------------------------------|
| 1542 | 1- | 0601-248(090) | Radiator |
| | 2- | 1614-532 | Way Valve |
| | 3- | 3298-785 | Hydrwlic engine |
| | 4- | 5122-080 | Roller brush |
| | 5- | 5122-074 | Disk brush |
| | 6- | 001431-4106 | Prusser regulator |
| | 7- | 385410-0231 | Universal joint gross |
| | 8- | 3402500215 | Relese regulator |
| | 9- | 0012503803 | clutch disc |
| | 10- | 3520303702 | crank shaft |
| | 11- | 3524700092 | Filter element |
| | 12- | 0031510501 | starting motor |
| | 13- | 0061542402 | Alternator |
| | 14- | 1701-054 | Starter |
| | 15- | 1702-117(102) | Generator |
| | 16- | 0039975492 | V. belt |
| | 17- | 0048-244 | V. belt |
| | 18- | 010074-6201 | Ingection pump |
| | 19- | 1710-074(246) | Light |
| | 20- | 0000178621 | Nozzle holder |
| | 21- | 0000173912 | Nozzle |
| | 22- | 7845-225 | Plunger nozzle |
| | 23- | 7845-480(171) | Exhaust pipe |
| | 24- | 1716-019 | Switch |
| | 25- | 1616-126 | Nose line |
| | 26- | 0000900050 | Fuel feed pump |
| | 27- | 0000900250 | Fuel pump |
| | 28- | | Bush pistom ring for engine |
| | 29- | | Bush pistom ring for rear engine |

VIII-D: Spare Part Of Hino Cars KB 422

| No | Item. | p.No. | Des. |
|------|-------|-----------------|---------------|
| 1543 | 1- | 11110-1292 | Cylinder head |
| | 2- | 13216-1230 | Piston |
| | 3- | 11467-1180 | Liner |
| | 4- | 04010-0160 | Gasket |
| | 5- | 16100-1161 | Pump |
| | 6- | 27020-1380 | Alternator |
| | 7- | 28100-1400 | Startor |
| | 8- | 13011-1630 | Ring Set |
| | 9- | 13201-1280 | Bearing |
| | 10- | 13201-1300 | Bearing |
| | 11- | 13011-1330-1340 | Ring |
| | 12- | 11701-1161 | Bearing |
| | 13- | 11704-1161 | Bearing |
| | 14- | 11703-1161 | Bearing |
| | 15- | 1111202000 | Vacum pump |
| | 16- | 32210-1113 | Boo star |
| | 17- | 32200-1011 | Repair Kit |
| | 18- | 3140-1060 | Cylinder |
| | 19- | 27700-1100 | Regulator |
| | 20- | 29100-1032 | compressor |
| | 21- | 22000-1011 | Ing. Pump |
| | 22- | 60617-2300 | Nozzle |
| | 23- | 22104-1050 | Element |
| | 24- | 9828-01168 | Oil seal |
| | 25- | 22509-1060 | pump |
| | 26- | 11011-1171 | Washer |
| | 27- | 29191-1080 | Piston Ring |
| | 28- | 29106-1070 | Piston Ring |
| | 29- | 29101-1020 | Valv ass |
| | 30- | 29110-1040 | cylinder |
| | 31- | 29185-1040 | Bearing |
| | 32- | 29173-1010 | Bearing |
| | 33- | 9828-25110 | Oil Seal |
| | 34- | 27330-1310 | Rotor |
| | 35- | 27410-1350 | Stator as. |
| | 36- | 990-063042 | Bearing |
| | 37- | 990-062032 | Bearing |
| | 38- | 28150-1320 | Switch |
| | 39- | 28160-1210 | Armature |

| No | Item. | p.No. | Des. |
|----|-------|------------|----------|
| | 40- | 990-062020 | Bearing |
| | 41- | 9828-20210 | Oil seal |
| | 42- | 9881-20115 | Bearing |

VIII-E: Spare Part Of Kawsaky 70 , 80

| No | Item. | p.No. | Des. |
|------|-------|---|----------------|
| 1544 | 1- | YZ 1136102190 | Water pump |
| | 2- | YZ 1811000451 | stator |
| | 3- | YZ 1812001780 | Alter nator |
| | 4- | YZ 9822500720 | Cutt out |
| | 5- | YZ 9812009513 | Feed pump |
| | 6- | YZ 41201210 | Kit |
| | 7- | L010 | Kit |
| | 8- | YZ 1878181649 | Oil cooler |
| | 9- | YZ 1217000841 | Fan |
| | 10- | YZ 210609201 | Kit |
| | 11- | 822522 | Pump |
| | 12- | YK1161071100 | Pump |
| | 13- | YK 1189022105 | Valve |
| | 14- | YZ 1125510030 | Valve |
| | 15- | YZ 1125520030 | Air compressor |
| | 16- | YZ 1191000621 | Lever |
| | 17- | 05C0151L000 | Control |
| | 18- | 05D0191L001 | Cylinder |
| | 19- | 53C0441L100 | Cylinder |
| | 20- | 53C0451L100 | Valve |
| | 21- | YTU38 | Transmisson |
| | 22- | RIF277T | Torque |
| | 23- | YKY88271X YKY7071X YRS 4078100000A | Radiator |

VIII-F: Spare Part for Scaina Model 1981

| No | No. | Description | lorry part. No (DS) | ciesspit part No. (SN) | Qty |
|------|-----|---------------------------|---------------------|------------------------|-----|
| 1545 | 1 | Turbo charger | 252320 | | |
| | 2 | Cylinder block | 295214 | 295214 | 10 |
| | 3 | Cylinder liner | 273759 | 235828 | 30 |
| | 4 | In take valve | 324573 | 324573 | 60 |
| | 5 | Exhaust valve | 232018 | 232018 | 60 |
| | 6 | Set intake valve | 289517 | 289517 | 60 |
| | 7 | Set exhaust valve | 289518 | 289518 | 60 |
| | 8 | set of piston | 307079 | 307081 | 20 |
| | 9 | set of piston ring | 550170 | 550170 | 30 |
| | 10 | connecting rod | 318062 | 318062 | 15 |
| | 11 | Bushing | 170094 | 170094 | 120 |
| | 12 | set of bearing shell | 279620 | 279620 | 30 |
| | | | 279621 | 279621 | 30 |
| | | | 279622 | 279622 | 30 |
| | | | 279623 | 279623 | 30 |
| | | | 279624 | 279624 | 30 |
| | | | 279625 | 279625 | 30 |
| | | | 279626 | 279626 | 30 |
| | 13 | Crank shaft | 279580 | 279580 | 20 |
| | 14 | Fly wheel | 306991 | 306991 | 15 |
| | 15 | Vibration damper | 131296 | 131296 | 15 |
| | 16 | Cam shaft | 238401 | 228830 | 50 |
| | 17 | Set of cam shaft bearing | 157274 | 157274 | 60 |
| | 18 | Set of cam shaft bearing | 131115 | 131115 | 60 |
| | 19 | Set of cam shaft bearing | 131455 | 131455 | 60 |
| | 20 | Set of push rod | 271676 | 271676 | 30 |
| | 21 | Oil pump | 301473 | 301473 | 50 |
| | 22 | Ball bearing for oil pump | 152897 | 152897 | 50 |
| | 23 | Lubrication oil cleaner | 300162 | 300162 | 25 |
| | 24 | Oil cooler | 266794 | 266794 | 50 |
| | 25 | Set of bearing shall | 274610 | 274610 | 50 |
| | | | 274611 | 274611 | 50 |
| | | | 274612 | 274612 | 50 |

| No | No. | Description | lorry part. No (DS) | ciesspit part No. (SN) | Qty | |
|----|-----|------------------------------------|---------------------------|------------------------------|-----|----|
| | | | 274613 | 274613 | | 50 |
| | | | 274614 | 274614 | | 50 |
| | | | 274615 | 274615 | | 50 |
| | | | 274616 | 274616 | | 50 |
| | 26 | Radiator | 310080 | 310080 | 20 | |
| | 27 | Rep-kit for injection pump | 550137 | 550137 | 60 | |
| | 28 | Rep-kit for centrifugal gover | 559138 | 559138 | 60 | |
| | 29 | Rep-kit for feed pump | 550140 | 550140 | 60 | |
| | 30 | Rep-kit for primiry filter | 550300 | 550300 | 30 | |
| | 31 | Rep-kit for clutch servo | 550432 | 550432 | 50 | |
| | 32 | Water pump | 292761 | 292761 | 70 | |
| | 33 | Ball bearing Inner | 228836 | 228836 | 50 | |
| | 34 | Ball bearing outer | 258267 | 258267 | 20 | |
| | 35 | Fan | 232169 | 232169 | 50 | |
| | 36 | Feed pump | 211005 | 192847 | 100 | |
| | 37 | Set of nozzle | 232149 | 232144 | 30 | |
| | 38 | Fuel cleaner | 303797 | 303797 | 60 | |
| | 39 | Disc | 304398 | 304398 | 60 | |
| | 40 | Lining set | 550432 | 550432 | 15 | |
| | 41 | Gear pump | 194838 | 194838 | 50 | |
| | 42 | Ball bearing clutch | 550421 | 550421 | 50 | |
| | 43 | Clutch servo | 298953 | 298953 | 50 | |
| | 44 | Set rep-kit for hydraulic cylinder | 292962 | 292962 | 20 | |
| | 45 | Set rep-kit for clutch | 550421 | 550421 | 150 | |
| | 46 | Gear box | 314748 | 314748 | 50 | |
| | 47 | Three way valve | 317340 | 317340 | 150 | |
| | 48 | Magnetic vavle | 303470 | 303470 | 10 | |
| | 49 | Cross joint | 294380 | 294380 | 50 | |
| | 50 | Central gear | 304243 | 304207 | 50 | |
| | 51 | Central gear | 322576 | 317387 | 50 | |
| | 52 | Pump with motor | 309776 | 309776 | 50 | |
| | 53 | Spring brake champer | 295387 | 295390 | 50 | |
| | 54 | Stator motor | 163394 | 163394 | 50 | |
| | 55 | Rotor | 305154 | 305154 | 50 | |
| | 56 | Ball bearing | 305156 | 305156 | 100 | |

| No | No. | Description | lorry part. No (DS) | ciesspit part No. (SN) | Qty |
|-----------|------------|----------------------------------|------------------------------------|---------------------------------------|------------|
| | 57 | Stator | 308508 | 308508 | 50 |
| | 58 | Alternator | 305152 | 305152 | 50 |
| | 59 | Diod | 305158 | 305158 | 50 |
| | 60 | Main shaft | 317960 | 317960 | 30 |
| | 61 | Driving shaft | 297903 | 297903 | 15 |
| | 62 | Brush plate | 308507 | 308507 | 150 |
| | 63 | Insulation | 193511 | 193511 | 150 |
| | 64 | Stator relay | 192976 | 192976 | 150 |
| | 65 | Stub axles | 131430 | 131430 | 20 |
| | 66 | Oil pressure valve | 259100 | 259100 | 20 |
| | 67 | Power steering gear | 319975 | 319975 | 20 |
| | 68 | Oil pressure manimeter | 275750 | 275750 | 20 |
| | 69 | Injection pump | 279077 | 302133 | 50 |
| | 70 | Alternator | 279698 | 279698 | 50 |
| | 71 | Ball bearing | 168248 | 168248 | 50 |
| | 72 | Hub damper | 277611 | 305742 | 15 |
| | 73 | Ball bearing clutch | 14831 | 14831 | 60 |
| | 74 | Inter prop shaft | 317505 | 317505 | 15 |
| | 75 | Set of complete parts of chassis | | | 50 |

IX VEHICLES

(Excluding all items that may be notifiable under resolution 1051)

Garbage Containers Hook Loader trucks & carbage container

| No | Description |
|------|--|
| 1546 | Garbage Containers Hook Loader trucks |
| 1547 | Garbage containers |

Cesspool empiter tanker

| No | Description |
|------|-------------------------|
| 1548 | Cesspool empiter tanker |

| CESSPOOL EMPTIER | |
|------------------|---|
| 1549 | CHASSIS CAB : 4 X 2 ENGINE: 6 CYLINDER, 4 STROKE. TURBOCHARGER POWER: NOT LESS THAN 240 HP. CLUTCH : SINGLE PLATE GEAR BOX : 8 SPEED G. V. W : NOT LESS THAN 19 TON PAYLOAD : NOT LESS THAN 12 TON TIER SIZE : 1200 X 20 DISK TYPE TANK CAPACITY : NOT LESS THAN 10000 L FLOW RATE :600 m³ /h |

| HIGH PRESSURE CESSPOOL EMPTIER |
|--------------------------------|
|--------------------------------|

| | |
|------|---|
| 1550 | <p>CHASSIS CAB: 8X4 ENGINE: DIESEL , WATER COOLED , 6 CYLINDER IN LINE ENGINE TURBOCHARGED AND ENTER COOLED , DIRECT FUEL INJUNCTION TROPICAL FAN, FUEL FILTER , SINGLE BOX TYPE POWER: NOT LESS THAN 288 HP. CLUTCH: SINGLE PLATE DRY CLUTCH F&S , TYPE MFZ,, 430 HYDRAULICALLY OPERATED , AIR ASSISTED . ASBESTOS – FREE LININGS GEAR BOX : ZF 18S 151 SYNCHROMESH GEAR BOX 16 POWER WARD SPEEDS , 2 REVERSE , STICK SHIFT. MAX VACUUM : 800 MBAR MAX AIR VOLUME : UNLOADED RPM 1500 RPM 5900 CBM/TIM 1795 RPM 7070 CBM/TIM 2025 RPM 7970 CBM/TIM 2200 RPM 8660 CBM/TIM MEASUREMENTS (APPROX.) WIDTH 2460 MM LENGTH 8270 MM HEIGHT 2820 MM TIRE SIZE : 1200 X 20 WHEEL : 8.5X20 WEIGHT : NOT LESS THAN 13.4 TONS</p> |
|------|---|

| MINI GARBAGE COLLECTOR | |
|-------------------------------|--|
| 1551 | <p>CHASSIS CAB 4X2 ENGINE : 4 CYLINDER, WATER COOLED, DIRECT ENG. DIESEL ENG. POWER : 20-100 H.P CLUTCH : SINGLE PLATE GEAR BOX : 6 SPEED CAPACITY : 8 M3 COMPACT RATIO : 6:1</p> |

X. TRAFFIC SAFETY MATERIALS

(Excluding all items that may be notifiable under resolution 1051)

| No | Description |
|------|--|
| 1552 | road studs (reflective pavement marker) size 10 x 10 x1.75 cm , both faces are reflective in the same color : A. white color . B. yellow color . |
| 1553 | road studs (reflective pavement marker) size 10 x 10 x1.75 cm , one face in reflective for one directional viewing : A. white color . B. yellow color . |
| 1554 | road studs (reflective pavement marker) size 22 x 10 x4.5 cm , both faces are reflective in the same color : A. white color . B. yellow color . |
| 1555 | road studs (reflective pavement marker) size 22 x 10 x4.5 cm ,one face reflective : A. white color . B. yellow color . |
| 1556 | conventional epoxy adhesive (one or tow - component) required to sticks and firmly to pavement of the above mentioned |
| 1557 | Cones made of reflective material in two color (red and white) used for safety in road operation : A. cones with height of 70 cm . B. cones with height of 70 cm . |

XI. MISCELLANEOUS

(Excluding all items that may be notifiable under resolution 1051)

XI-A Steel Reinforcement

a) Specification

All bar steel be high -yield - stress deformed bars complying with BS 4449.

Minimum tensile properties per specified BS.

Yield or characteristic strength f_y is 460 N/mm² for bars 4P to and including 16mm in diameter, and 425 N/mm² for larger bars.

The supplier shall provide the establishment with certificates from the manufactures confirming that all steel supplied is in accordance with above standard .

The supplier have to test aspecimens of the bars {one specimen for each 10000 kg of steel bars} and to be choosen by the establishment in baghdad .The test shall be done by the {National center for construction laboratories } and to be at the supplies expouse. The test to be according to the above standard .The steel shall be free from oil , paint , mill scale, dirt and loose rust.

| No | Bar Size in millimeter |
|-----------|-------------------------------|
| 1558 | 6 |
| 1559 | 8 |
| 1560 | 10 |
| 1561 | 12 |
| 1562 | 16 |
| 1563 | 18 |
| 1564 | 20 |
| 1565 | 22 |
| 1566 | 25 |
| 1567 | Tie wire |

XI-C: Office Equipment

| | |
|------|----------------------------------|
| 1568 | MODERN PHOTO COPY MACHINE |
|------|----------------------------------|

| | |
|------|---------------------------|
| 1569 | MODERN TYPEWRITERS |
|------|---------------------------|