S.NO.	DESCRIPTION	QTY.	UNIT	In
28	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF MILD STEEL BLACK PIPE (IS 1239 PART - I) HEAVY CLASS INCLUDING CUTTING, SCREWING, WELDING ETC. AND PROVIDING ALL FITTINGS VIZ. FORGED STEEL SCREWED FITTINGS UPTO 50 MM DIA. AND BUTT WELDED ABOVE 50 MM DIA., FLANGES, BENDS, TEES, REDUCERS, ELBOWS, CLAMPS, HANGERS ETC. INCLUDING CUTTING HOLES AND CHASES IN BRICK OR RCC WALLS / SLABS AND MAKING GOOD THE SAME TO THE APPROVAL OF ENGINEER-INCHARGE / CONSULTANT COMPLETE INCLUDING PAINTING WITH ONE COAT OF PRIMER AND TWO OR MORE COATS OF ENAMEL PAINT OF APPROVED MAKE AND SHADE INCL. STEEL WORK			
	(a) 80 MM DIA.	16	RM	
	(b) 65 MM DIA.	12	RM	
	(c) 50 MM DIA.	10	RM	
	(d) 40 MM DIA.	06	RM	
	(e) 32 MM DIA.	06	RM	
	(f) 25 MM DIA.	50	RM	
29	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF GUN-METAL BALL VALVES, ISI MARKED SCREWED TYPE TESTED TO 30 KG/CM² PRESSURE (IS:778) OF FOLLOWING SIZES :			
	(a) 25 MM DIA	02	EACH	
	(b) 15 MM DIA.	02	EACH	
	TOTAL CARRIED OVER TO SUMMARY			

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S.NO.	DESCRIPTION	QTY.	UNIT
	B-3 TERRACE PUMPS		
30	PROVIDING & FIXING 900 LMP, 35 M HEAD HORIZONTAL SINGLE STAGE, MONOBLOCK PUMPING SET WITH STAINLESS STEEL SHAFT, BRONZE IMPELLER WITH C.I. BODY SUITABLE INDUCTION MOTOR MOUNTED ON A COMMON STRUCTURAL BASEPLATE INCLUDING SUITABLE R.C.C. FOUNDATION WITH ALL PUMP ACCESSORIES COMPLETE E.G. 150 MM DIA. PRESSURE GAUGE WITH G.M. ISOLATION COCK METER TO BE SUITABLE FOR 420 TO 440 VOLTS 3 PHASE, 50 CYCLES, A / C SUPPLY.	01	EACH
31	PROVIDING & FIXING OF CUBICAL TYPE MOTOR CONTROL PANEL FABRICATED FROM 16 G M.S. SHEET WITH ENAMALED FINISH FOR ABOVE FIRE PUMPS AND COMPRISING OF :-		
	(i) ONE INCOMING MAIN ISOLATION SWITCH FUSE UNIT WITH HRC FUSES OF 63 AMPS. RATING		
	(ii) ONE FULLY DOL, STARTER WITH PUSH BUTTONS & ON / OFF INDICATION LIGHTS FOR ABOVE.		
	(iii) ONESINGLE PHASING PREVENTERS OF SUITABLE RATING ONE FOR EACH MOTOR.		
	(iv) ONE 150 MM DIA. SQUARE PANEL TYPE VOLTMETER READING 0 - 500 VOLTS WITH ROTARY SELECTOR SWITCH FOR READING VOLTAGE BETWEEN PHASES.		
	(v) ONE 100 MM SQUARE 0 - 30 AMPS. AMPERMETER.		
	(vi) COLOUR CODED INTERNAL WIRING FROM INCOMING MAIN TO BUS BAR, SWITCH GEAR STARTERS, METERS INDICATING LAMPS COMPLETE IN ALL RESPECT.		
	(vii) 3-PHASE INCOMING LAMPS INDICATORS (ALL SWITCHES TO BE L & T)	01	SET

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.O.	DESCRIPTION	QTY.	UNIT
22	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF CAST IRON SLIM SEAL WAFER TYPE NON-RETURN VALVES COMPLETE WITH MATCHING FLANGES, RUBBER INSERTION, NUTS, BOLTS & WASHERS ETC. COMPLETE (PN 1.6) OF FOLLOWING SIZES :		
	(a) 100 MM DIA. (PN 1.6)	02	EACH
23	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF CAST IRON GEAR/HAND LEVER OPERATED MULTI PURPOSE SOFT SEATED WAFER BUTTERFLY VALVE HAVING CENTRIC DISC CONSTRUCTION ONE PIECE BODY, REPLACEABLE SEAL PN-1.6 PRESSURE RATING, SS-304 SHAFT, COMPLETE WITH MATCHING FLANGES.		
	(a) 100 MM DIA.	04	EACH
24	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OFGUN METAL BALL VALVE ISI MARKED SCREWED TYPE TESTED TO 30 KG/CM² PRESSURE (IS-778-1984) OF FOLLOWING SIZES :		
	(a) 50 MM DIA.	02	EACH
	(b) 25 MM DIA.	02	EACH
	TOTAL CARRIED OVER TO SUMMARY		

S.NO.	DESCRIPTION	QTY.	UNIT
	B-2 AUTOMATIC SPRINGKLER SYSTEM		
25	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 15 MM DIA. QUARTZ BULB (3MM) QUICK RESPONSE TYPE G.M. SPRINKLER HEAD SUITABLE TO OPERATE AT 68° C. (UL/LPC LISTED/APPROVED).		
	a) Q.R. PENDANT / UPRIGHT TYPE IN BRASS FINISH / CHROME FINISH.	25	EACH
26	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 80 MM DIA. INSTALLATION CONTROL VALVE ASSEMBLY COMPRISING OF VERTICAL WET ALARM VALVE, 80 MM DIA. BUTTERFLY VALVE WITH MATCHING FLANGES, HYDRAULIC ALARM MOTOR & GONG, 15 MM DIA. TEST VALVE, 50 MM DIA. DRAIN VALVE AND ALL NECESSARY TRIMMING CONNECTIONS INCLUDING 2 NOS. PRESSURE GAUGES AS PER MANUFACTURER'S CATALOGUE (UL / LPC LISTED / APPROVED).	01	EACH
27	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OFCAST IRON GEAR/HAND LEVER OPERATED MULTI PURPOSE SOFT SEATED WAFER BUTTERFLY VALVE HAVING CENTRIC DISC CONSTRUCTION ONE PIECE BODY REPLACEABLE NITRILE SEAT PH 1.6 PRESSURE RATING, SS-304 SHAFT, COMPLETE WITH MATCHING FLANGES.		
	(a) 80 MM DIA.	01	EACH

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S.NO.	DESCRIPTION	QTY.	UNIT
	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF GUN-METAL FIRE BRIGADE CONNECTION (SUCTION COLLECTING HEAD) CONSISTING OF 2 NOS 63 MM DIA INSTANTANEOUS TYPE MALE COUPLING WITH BUILT-IN CHECK VALVES AND 100 MM DIA. FLANGED OUTLET COMPLETE WITH BOLTS, NUTS AND RUBBER INSERTIONS AS REQUIRED AS PER IS:904-1983.	01	EACH
18	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF M.S. CABINET (TO ENCLOSE ABOVE F.B. CONNECTION) FABRICATED FROM 16 G SHEET WITH FULL GLASS DOOR AND LOCKING ARRANGEMENT DULY PAINTED WITH ONE COAT OF PRIMER AND TWO OR MORE COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED MAKE AND SHADE SUITABLY MOUNTED ON A RAISED MASONRY PLATFORM AS REQUIRED. (APPROX. 0.6 M X 0.6M X 0.45 M). EXACT SIZE & SHAPE SHALL BE SUBJECT TO SITE CONDITIONS & PRIOR APPROVAL.	01	EACH
19	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF AIR CUSHION TANK (AIR VESSEL) 250 MM DIA. X 1.0 M HIGH WITH DISHED TOP, MADE OF MINIMUM 6 MM THICK M.S. PIPE/PLATE COMPLETE WITH 20 MM DIA. BRASS AIR VALVE (BALL TYPE), 2 NOS, 25 MM DIA STOP/DRAIN VALVE, PRESSURE GAUGE WITH BRASS STOP COCK, NIPPLE, TEES, ELBOW AND ALL ACCESSORIES AS REQUIRED INCLUDING FIXING BRACKETS.	01	EACH

S.NO.	DESCRIPTION	QTY.	UNIT
20	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF MILD STEEL BLACK PIPE (IS:1239 PART-I) HEAVY CLASS INCLUDING CUTTING, SCREWING, WELDING ETC. COMPLETE WITH FORGED STEEL SCREWED (BELOW 50 MM DIA) / BUTT WELDED(50MM DIA & ABOVE) FITTINGS VIZ. TEES, BENDS, ELBOWS, FLANGES, REDUCERS, CLAMPS HANGERS ETC. INCLUDING CUTTING HOLES AND CHASES IN BRICK OR RCC WALLS/SLABS AND MAKING GOOD THE SAME COMPLETE INCLUDING PAINTING WITH ONE COAT OF PRIMER AND TWO OR MORE COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED MAKE AND SHADE.		
	(a) 100 MM DIA.	40	RM
	(b) 80 MM DIA.	06	RM
	(c) 50 MM DIA.	10	RM
	(d) 25 MM DIA.	10	RM
21	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF MILD STEEL BLACK PIPE (IS:1239 PART - I) HEAVY CLASS INCLUDING CUTTING, SCREWING, WELDING ETC. COMPLETE WITH FITTING VIZ. TEES, ELBOW, BEND, FLANGES, REDUCERS ETC. INCLUDING EXCAVATION (UPTO 1.5 M DEEP), RUBBLE SOLING, SAND FILLING, BACK-FILLING WITH EXCAVATED EARTH, REMOVAL OF SURPLUS SOIL AND PROVIDING ANTI-CORROSIVE TREATMENT (COATING AND WRAPPING WITH 4 MM THICK TAPE) AS PER IS:10221 COMPLETE AS REQUIRED.		
	(a) 100 MM DIA.	10	RM

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.NO.	DESCRIPTION	QTY.	UNIT
B	FIRE FIGHTING SYSTEMS		
	B-1 FIRE HYDRANT / WET RISER SYSTEM		
10	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF SINGLE HEADED, GUN-METAL ISI MARKED OBLIQUE PATTERN HYDRANT LANDING VALVE WITH 80 MM DIA. FLANGED INLET AND 63 MM DIA. INSTANTANEOUS TYPE FEMALE OUTLET COMPLETE WITH GUN-METAL CAP. AND G.I. CHAIN, TWIST RELEASE TYPE LUG AND ALL ACCESSORIES AS PER IS:5290-1983 (TYPE 'A').	06	EACH
11	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF FIRST-AID FIRE HOSE REEL WALL MOUNTING SWINGING TYPE COMPLETE WITH DRUM, BRACKET, 25 MM DIA. STOP VALVE AND 20 MM DIA. X 36 M LONG HIGH PRESSURE HOSE REEL TUBING AS PER IS:444 WITH GUN-METAL SHUT-OFF NOZZLE HAVING 5 MM DIA. ORIFICE. THE HOSE REEL SHALL STRICTLY CONFIRM TO IS: 884 : 1985.	05	EACH
12	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OFUNLINED FLAX CANVAS HOSE ISI MARKED (IS:4927) 63 MM DIA. X 15 M LONG COMPLETE WITH INSTANTANEOUS TYPE GUN-METAL 63 MM DIA. ISI MARKED MALE & FEMALE COUPLINGS (IS:903) BOUND AND RIVETED TO HOSE PIPE WITH COPPER RIVETS AND 1.5 MM DIA. COPPER WIRE.	02	EACH
13	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF NON-PERCOLATING FLEXIBLE HOSE (RRL TYPE - 'A') ISI MARKED (IS:636) 63 MM DIA. X 15 M LONG COMPLETE WITH INSTANTANEOUS TYPE GUN-METAL 63 MM DIA. ISI MARKED MALE AND FEMALE COUPLINGS (IS:903) BOUND AND RIVETED TO HOSE PIPE WITH COPPER RIVETS AND 1.5 MM DIA. COPPER WIRE.	10	EACH

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S.NO.	DESCRIPTION	QTY.	UNIT
14	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF GUN-METAL 63 MM DIA. SHORT BRANCH PIPES WITH 16 MM DIA. NOZZLES, ISI MARKED (IS:903).	06	EACH
15	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF WEATHER PROOF HOSE CABINETS FABRICATED FROM 16 G M.S. SHEET WITH FULL GLASS DOOR AND LOCKING ARRANGEMENT, SUITABLE TO ACCOMMODATE ONE HYDRANT LANDING VALVE, 2 NOS. 15 M LONG HOSES AND 1-NO. BRANCH PIPE. THE CABINET SHALL BE PAINTED WITH ONE COAT OF PRIMER AND TWO OR MORE COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED MAKE AND SHADE AND SHALL BE SUITABLY MOUNTED ON A RAISED MASONRY PLATFORM AS REQUIRED. (APPROX. 0.9 M X 1.2 M X 0.6 M). THE SIZE & SHAPE SHALL BE SUBJECT TO SITE CONDITIONS & PRIOR APPROVAL.	01	EACH
16	SUPPLY, INSTALLATION , TESTING AND COMMISSIONING OF INDOOR TYPE HOSE CABINET FRAMES (TO BE MOUNTED ON EXISTING MASONRY NICHES) FABRICATING FROM 40 X 40 X 5 ANGLE IRON SECTIONS AND 16 M.S. SHEET WITH FULL FRONT GLASS DOOR AND LOCKING ARRANGEMENT, SUITABLE TO ACCOMMODATE 1 NO. LANDING VALVE, 2 NOS. HOSE PIPES, FIRST AID HOSE REEL AND 1 NO. BRANCH PIPES. THE CABINET FRAME SHALL BE PAINTED WITH ONE COAT OF PRIMER AND TWO OR MORE COATS OF SYNTHETIC ENAMEL PAINT OF APPROVED MAKE AND SHADE AND SHALL BE SUITABLY MOUNTED ON MASONRY NICHES AS REQUIRED. (APPROX. 1.2 M X 2.0 M). EXACT SIZE & SHAPE SHALL BE AS PER SITE CONDITIONS AND PRIOR APPROVAL.	05	EACH

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EXTRACT FROM SPECIFICATION OF ITEMS INSTALLED IN FIRE FIGHTING SYSTEM

S NO	DESCRIPTION	QTY.	UNIT
A	FIRE DETECTION & ALARM SYSTEM (CONVENTIONAL)		
	COMPONENTS, ACCESSORIES AND CONTROL PANELS		
1	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF PHOTO-OPTICAL TYPE SMOKE DETECTORS (UL/LPC LISTED/ APPROVED) COMPLETE WITH JUNCTION BOX AND ORIGINAL BASE.	01	EACH
2	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF MANUAL BREAK GLASS PUSH BUTTON TYPE CALL POINT COMPLETE WITH AUXILIARY CONTACT LAMP, FRONT GLASS, PUSH BUTTON, GLAND, HAMMER ETC, STRICTLY AS PER IS:2189 AND SPECIFICATIONS	06	EACH
3	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF REMOTE RESPONSE INDICATORS COMPLETE AS PER IS: 2189-1988 AND SPECIFICATIONS.	01	EACH
4	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF ELECTRONIC ALARM SOUNDERS 4 WATTS (75 dB) IN A METALLIC BOX COMPLETE AS PER IS:2189 AND SPECIFICATIONS AND SUITABLE FOR USE AS SPEAKER FOR PA SYSTEM (SHAPE & SIZE TO SUIT SITE CONDITIONS / INTERIOR).	06	EACH
5	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF MICROPROCESSOR BASED MAIN FIRE ALARM CONTROL PANEL OF 08 ZONES COMPLETE WITH MAINTENANCE FREE BATTERIES, BATTERY CHARGER AND ALL OTHER ACCESSORIES STRICTLY AS PER IS 2189-1988 INCLUDING 50 WATTS AMPLIFIER, MICRO PHONE, AND ALL FEATURES OF PA SYSTEM INCLUDING ANY ALL-CALL FACILITY AS PER SPECIFICATIONS	01	EACH

S.NO.	DESCRIPTION	QTY.	UNIT
6	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF SOLID COPPER, CONDUCTOR, PVC INSULATED ISI MARKED TWIN CORE CABLE (IS:694) :		
	(a) 2 X 1.5 SQ. MM.	200	RM
7	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF M.S. CONDUIT OF 16 SWG ISI MARKED (IS:9537-1981 PART-II) COMPLETE WITH ALL FITTINGS VIZ. TEES, BENDS, JUNCTION BOXES, CLAMPS/SUPPORTS ETC. TO BE CONCEALED IN SLABS/BRICK WORK AS REQUIRED OR SURFACE LAID.		
	(a) 25 MM DIA.	75	RM
8	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF M.S. FLEXIBLE CONDUIT COMPLETE WITH ALL FITTINGS VIZ. TEES, BENDS, JUNCTION BOXES, CLAMPS/SUPPORTS ETC. TO BE CONCEALED IN SLABS/BRICK WORK AS REQUIRED OR SURFACE LAID.		
	(a) 20 MM DIA.	10	RM
9	SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF COPPER CONDUCTOR, PVC INSULATED ISI MARKED HEAVY DUTY ARMOURED CABLE (IS:1554-1976) (PART-I).		
	(a) 2 X 1.5 MM SQ.	25	RM
	TOTAL CARRIED OVER TO SUMMARY		

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S.NO.	DESCRIPTION	QTY.	UNIT	Ip
[illegible]	SUPPLY & FIXING OF ISI MARKED (IS: 10204) PORTABLE FIRE EXTINGUISHER, MECHANICAL FOAM TYPE CAPACITY 9 LTRS. WITH GUN - METAL CAP AND NOZZLE AND COMPLETE IN ALL RESPECTS INCL. INITIAL FILL AND WALL SUSPENSION BRACKET WITH NECESSARY NUTS / BOLTS OR DASH FASTENERS COMPLETE	02	EACH	
[illegible]	SUPPLY & FIXING OF ABC (DRY POWDER) FIRE EXTINGUISHERS, CAPACITY 2 KG. IN HP STEEL CYLINDERS ISI MARKED & APPROVED BY CCE, NAGPUR FITTED WITH PRESSURE INDICATING GAUGE, INTERNAL TUBE, SQUEEZE LEVEL TYPE VALVE FULLY CHARGED WITH ABC POWDER AND PRESSURIZED BY NITROGEN COMPLETE IN ALL RESPECTS INCLUDING WALL SUSPENSION BRACKET WITH NECESSARY NUTS/BOLTS OR DASH FASTENERS ETC. COMPLETE	02	EACH	
	TOTAL CARRIED OVER TO SUMMARY			

S.NO.	DESCRIPTION	QTY.	UNIT
D	**ILLUMINATED EXIT SIGNS**		
39	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF PROVIDING & FIXING OF PHOTOLUMINESCENT, NON TOXIC, NON-RADIO ACTIVE, MAINTENANCE FREE SELF GLOWING, EXIT SIGNS OF OVER ALL SIZE 300 MM X 150 MM COMPRISING ZINC SULPHIDE CHARGEABLE CRYSTALS WHICH GLOWS IN DARK COMPLETE WITH ALUMINIMUM SHEEL (3 MM THICK) AND MOUNTING ARRANGEMENT FOR WALL/CEILING MOUNTING. THE COLOUR COMBINATION AND SIZE OF THE LETTERS SHALL BE AS PER IS:[illegible] AMENDED UPTO DATE.		
	(a) SINGLE SIDED EXIT SIGNS	06	EACH
	(b) DOUBLE SIDED EXIT SIGNS	06	EACH
	TOTAL CARRIED OVER TO SUMMARY		

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.NO.	DESCRIPTION	QTY.	UNIT	In F
32	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF PRESSURE SWITCHES WITH COCKS.	01	SET	
33	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF PRESURE GUAGES WITH COCKS	01	SET	5
	TOTAL CARRIED OVER TO SUMMARY			

S.NO.	DESCRIPTION	QTY.	UNIT
C	PORTABLE FIRE EXTINGUISHERS		
34	SUPPLY & FIXING OF ISI MARKED (IS 940) PORTABLE FIRE EXTINGUISHER WATER (GAS PRESSURE) TYPE CAPACITY 9 LTRS. WITH GUN-METAL CAP. AND NOZZLE AND COMPLETE IN ALL RESPECTS INCLUDING INITIAL FILL AND WALL SUSPENSION BRACKET WITH NECESSARY NUTS/BOLTS OR DASH FASTENERS ETC. COMPLETE	09	EACH
35	SUPPLY & FIXING OF ISI MARKED (IS:2878) PORTABLE FIRE EXTINGUISHER, CARBON-DIOXIDE TYPE FLAT BASE INCLUDING VALVE, DISCHARGE HOSE OF NOT LESS THAN 10 MM DIA. 1 M LONG & COMPLETE IN ALL RESPECTS INCLUDING INITIAL FILL WITH CO2 GAS CONFIRMING TO IS:307-1966 FILLED TO A FILLING RATIO OF NOT MORE THAN O.667 AND WALL SUSPENSION BRACKET WITH NECESSARY NUTS / BOLTS OR DASH FASTENERS ETC. COMPLETE		
	(a) CAPACITY 4.5 KG.	08	EACH
36	SUPPLY & FIXING OF ISI MARKED (IS 2878) FIRE EXTINGUISHER, TROLLEY MOUNTED CARBON-DIOXIDE TYPE CAPACITY 6.8 KG. FLAT BASE INCLUDING VALVE, DISCHARGE HOSE OF NOT LESS THAN 10 MM DIA. 1 M LONG & COMPLETE IN ALL RESPECTS INCLUDING WHEELED TROLLEY, CARRYING HANDLE AND INITIAL FILL WITH CO2 GAS AS PER IS:307-1996 FILLED TO A FILLING RATIO OF NOT MORE THAN O.667.	02	EACH

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