

**INDIAN INSTITUTE OF TECHNOLOGY KANPUR**  
**INSTITUTE WORKS DEPARTMENT**  
**CENTRAL OFFICE**

Letter No. IWD/CO/2025/97  
Dated: 20.06.2025

**Corrigendum Notice 3**

Regarding Notice Inviting Tender No.28/Composite/CO/2025-26

Tender ID : **2025\_IITK\_864004\_1**

**Name of work:** Construction of Hall of Residence No. 15 for Girls consisting of four blocks of (G +12) storied including their connecting corridors, admin block & multipurpose hall and facility block including internal and external electrification work, plumbing, firefighting, fire alarm system, lifts, water tank, landscape roads, HVAC (Low Side), at IIT Kanpur (U.P).. The following is for the information of bidders:

Sr. No.	Query raised by the Bidders	Clarification
<b>Bidder-1</b>		
1.	Page 61 Schedule B mentions CRC steel Bars of various diameters of 100.07MT quantity. Whereas nowhere in tender documents is it mentioned that any material is being issued by the department. The same may be clarified.	The CRC steel bars of various diameters mentioned on Page 61 will only be issued to the agency by the Institute. In future, No other material would be issued by the Institute.
2.	As per page 107, Pt 1.17. two offices have to be provided for one for IWD staff and second for CPWD staff, the same may be confirmed.	It is typo mistake. the agency is required to provide one site office and one conference room along with toilets. Both facilities will be used by the Institute.
3.	Page 81, Pt 13 allows fly ash usage in SCC, it may be clarified if use of fly ash is allowed in other RCC works as well or not. Also the respective BOQ items do not mention use of fly ash in RCC & SCC, the same may be corrected.	The usage of fly ash is only allowed with OPC for SCC, if required so. However, PPC is allowed in rest of the RCC, PCC and masonry works.
4.	Time period allowed for completion of work is 18 months which is very much on the lower side considering piling work and structure for G +12 along with finishing activities and complete scope of services. Procurement of aluminium formwork, itself will take a minimum of 3 months since it is customized to specific requirements. It is requested that a minimum period of 27 months may be considered.	The time-period shall remain as per NIT.

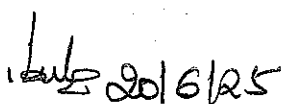




Sr. No.	Query raised by the Bidders	Clarification
5.	Item 6.15 & 6.16 of civil BOQ mention basic rate of granite and tiles which will be used. The same are mentioned with GST whereas tender has to be quoted without GST. The same may be looked into.	The contractor is required to procure the specified materials at the basic rates <b>not lower</b> than those mentioned in the BOQ. Additionally, the contractor must submit proof of purchase (GST invoices) reflecting the mentioned rates along with the respective RA Bill.
6.	Page 6 refers to additional qualifying condition of one completed work of 20% of estimated cost executed with MAFSS. The following two options are also proposed:	The qualifying criteria will remain same as per NIT
6a.	Ongoing works where works done achieved is more than 20% of estimated cost of invited tender may also be considered.	The qualifying criteria will remain same as per NIT
6b.	Works which are partially completed upto 80% satisfying MAFSS condition of 20% of estimated cost may also be considered to fulfil the same condition.	
7.	Item no 21.01 for MAFSS mentions rate of item at 372.19 whereas for conventional shuttering items in subhead 4 of Civil BOQ the shuttering rates are much higher (above 600 Rs) and in tune with current market rates. Since procurement cost of MAISS system is very high the rate of 372.19 may be reviewed.	The rate mentioned for Item No. 21.01 is as per DSR 2023, Volume 2, Item No. 26.48, and is in line with the current Delhi schedule of rates (Without GST factor). Bidders are advised to quote their rates in accordance with prevailing market conditions.
8.	Details of personnel to coordinate site visit may be provided.	The bidders are free to call on this number 0512-259-7604 for the site visit.
<b>Bidder-2</b>		
9	The eligibility criteria of eight storey RCC framed building may be revised to five storey RCC framed building.	The qualifying criteria will remain same as per NIT.
<b>Bidder-3</b>		
10	The item is not based on DSR-2023 where a similar item (DSR item no. 20.2A.1) having reinforced cement concrete piles of grade M-30 is given in item no. 16.03. The rate considered for item 16.03 in BOQ is Rs. 3034.55/- metre whereas DSR 2023 item no. 20.20A.1 is Rs. 5386.25/- metre. Kindly clarify if the item is a N.S item.	The proposed Item is N.S item. However, Bidders are advised to quote their rates in accordance with prevailing market conditions.

The preferred make list of civil work on page no 226-241 in NIT has been revised. The revised list as per annexure 'A' is attached for the information of bidder

  
Executive Engineer

  
Act. Superintending Engineer

## ANNEXURE-"A"

### LIST OF PREFERRED MAKES OF MATERIALS (CIVIL WORKS)

Preferred makes of materials to be used in the work is given below and Contractor shall procure the material mentioned in the list from any one of the preferred makes only. The Engineer in charge reserves the right to select any of the makes/brands indicated in the list of approved brand/make. The tenderers shall quote his rates based on the price for the best quality product of the brand/make stipulated for the item of work in the schedule of quantity/specification/list of preferred brand/ make. In case of non-availability of these makes, the Engineer-in-charge may allow use of alternative BIS marked materials/makes in the work. Non-BIS marked materials may be permitted by the Engineer-in-charge only when BIS marked materials are not manufactured.

S. No.	ITEM DESCRIPTION	BRAND/ MANUFACTURER
1	CEMENT	
a	Ordinary Portland Cement 43 Grade	Ultratech, Ambuja, ACC, L&T, J.K.Laxmi
b	Pozzolana Portland Cement 43 and 53 MPA	Ultratech, ACC, Birla, Ambuja, JK Lakshmi
c	White cement	Birla White, J.K. White or equivalent
d	Ready Mix Concrete (RMC)	Ultratech, ACC or equivalent
2	STEEL	
a	Reinforcement Steel	SAIL, TATA, JSW, RINL, JSPL
b	Structural Steel Sections: Beams, Channels, Tees, Flats, Angles Bars (Round, Square, Hexagonal).	TATA, SAIL, JSW, RINL, JSPL, Apollo
c	Structural Hollow steel sections	TATA, SAIL, JSW, RINL, JSPL, Apollo
d	Structural Tubular Sections / M.S. Pipe	TATA, SAIL, Jindal, Prakash, Surya
e	Stainless Steel	Salem Steel, Jindal stainless steel.
f	Welding Electrodes	Advani, Oerlikon or approved equivalent
g	Admixture/Plasticizer	Fosroc, SIKA, BASF, Dr. Fixit
h	Factory made cover block of required grade	A.S.R Cover block, J.K, Conbextra, KGM, KK Manhole
i	Binding wire	Tata, JSW or approved equivalent

3	Expansion Joints	
a	Expansion Joint filler	Durafill (Armour Board) Supreme Industries , Paramount or approved equivalent
b	Expansion Joint System 100mm thick for floor with Provision of Moisture/water Barrier Membrane	Migua FSL 113/35 & Migua FSL 113/35 corner , Vexcolt Megatec 300-A01-100 & 300-A02-100 or approved equivalent
c	Expansion Joint System 100 mm thick for internal wall & ceiling	Migua WJC 100 & Migua WJC 100 Corner, Vexcolt Megatec 360-A07-100 & 360-A09-100 or approved equivalent
d	Expansion Joint System 100 mm thick for external wall with Provision of Moisture/water Barrier Membrane	Migua WJC 100 & Migua WJC 100 Corner, Vexcolt Megatec 360-A07-100 & 360-A09-100 or approved equivalent
4	BRICKS	
a	First class burnt clay bricks	1st Quality Locally best available as approved
b	First class Cement based Fly ash bricks	1st Quality Locally best available as approved
5	TILES / FLOORING	
a	Ceramic Tiles /Glazed Tiles	Kajaria , H& R Johnson (India) Ltd, Somany, or approved equivalent
b	Antiskid full bodyVitrified floor tiles 9 mm(+/- 1 mm) thick of size 60 X 30 cm / 60 X 60 cm	Kajaria - Eternity series / Somany : Durastone ( geostone or Techstone series)/Johnson : Endura series / Restile - Original collection Granamite / Simpolo or approved equivalent
c	Matt / polished Vitrified wall tiles 9 mm (+/- 1 mm) thick of size 60 X 30 cm / 60 X 60 cm	Kajaria - The Trend Eternity series / Somany : Duragress / Johnson - Porcelano series / Restile Granamite series / Simpolo or approved equivalent
d	Matt / polished / semi polished Vitrified floor tiles 10 mm (+/- 1 mm) thick of size 60 X 30 cm / 60 X 60 cm	Kajaria - Stonegress / Somany : Tesoro /duragress series /Johnson endura - Sandex plus series / Restile - Original collection Granamite / Simpolo or approved equivalent
e	Tile Admixture	Laticrete 3642 of Laticrete or admixture E 135 of Ardex Endura or approved equivalent
f	High polymer fix set cementitious Tile Adhesive	Ardex Endura, Laticrete, Fosroc, Pidilite

g	Tile Grout for internal floor & wall	SP-100 Epoxy grout of Laticrete or epoxy grout of Ardex Endura or approved equivalent	
h	Tile Grout for External floor & wall	Laticrete ( 500 Series grout + 1776 grout admix plus) or Cement polymer grout of Ardex Endura + admix GT1 or approved equivalent	
i	Heat resistant tiles	Johnson ,Kajaria, Somany or approved equivalent	
j	Pavers / Inter locking Pavers	Koncrete, Pavit , Nitco Tiles, Unitile. or approved equivalent	
6	WATERPROOFING		
a	Acrylic Modified Cementitious Water Proofing Compound	Tapecrete P151	CICO Tech. Ltd
		Armourcrete	Structural Water Proofing Company Pvt. Ltd.
b	Construction Chemical Waterproofing	Fosroc Chemicals (India) Ltd., Sika India Pvt. Ltd., CICO Tec. Ltd, pidilite, Ardex endura	
c	Acrylic cementitious modified two component waterproofing	Fosroc, Ardex Endura , Pidilite, Cico	
d	Polyurea polyurethane Waterproofing	Fosroc, Ardex Endura , Pidilite, Cico	
e	Thermal Insulation with Polyurethane Foam	Fosroc , Pidilite , BASF or approved equivalent make	
f	Self-adhesive 1.5 mm thick HDPE membrane	Fosroc, Ardex Endura , Pidilite, Cico	
g	Self-adhesive 1.5 mm thick SBS modified membrane	Fosroc, Ardex Endura , Pidilite, Cico	
7	WOODWORK		
a	Commercial Board	Greenply/ Duro / Century/Marino/Green lam or approved equivalent	
b	Flush door shutters	Greenply/ Duro / Century / Merino or approved equivalent	
c	Marine Plywood	Greenply/ Duro / Century or approved equivalent	
d	BWP Ply	Greenply/ Duro / Century or approved equivalent	
e	Laminate	Greenlam (Greenply Industries Ltd.), Merino, Century Laminating Co. Ltd, Formica India Division. Sunmica	
f	Natural veneer	Century Ply boards (India) Ltd., Greenply Industries Ltd., Sarda Plywood Industries, Merino	

14

B

g	Teak Wood / Cedar	1st quality Nagpur Teak or Cedar
8	GLASS	
a	Float Glass	Saint- Gobain , Modi Float, Asahi, . or approved equivalent make
b	Mirror Glass	Modi Float, Asahi, Saint gobin or approved equivalent make
c	6mm / 10 mm / 12 mm thick toughened glass	Saint- Gobain , Asahi, Sisecam flat glass india,
d	6 mm thick High performance toughened glass	ST 467 toughened of saint Gobain / AIS or approved equivalent
e	24 mm thick Double glazed insulating glass	6mm PLTT toughened +12mm airgap+6 mm clear toughened of saint Gobain / AIS or approved equivalent
f	13.52 mm thick Laminated,glass	Saint- Gobain , Asahi, Sisecam flat glass india
9	FALSE CEILING	
a	Gypsum Board	Saint Gobain Gyproc, USG Boral, Knauff or approved equivalent
b	Aluminium Lay in tile False ceiling / Aluminium Micro Perforated ceiling	ArmStrong, Hunter Douglas, Durlum or approved equivalent make
c	POP / White cement putty	Birla, JK or approved equivalent make
d	Calcium silicate boards & tiles, & Calcium silicate perforated tiles	Ramco, Promat or approved equivalent make
e	White cement based, water resistant, polymer modified self curing ready mix Levelplast plaster	Level Plast of Birla white or approved equivalent make
10	WEATHER SEALS	
a	Rubber seals	Enviroseals, Anand Reddiplex or approved equivalent make
b	Brush Strips	Enviroseals, Anand Reddiplex or approved equivalent make
c	Expansion Joint Filler	Dow Corning, GE Silicon, Fosroc Chemicals(India) Ltd. or approved equivalent make
d	Silicon Structural Sealant & Weather Sealant	Dow Corning, G.E., Wacker or approved equivalent make
e	Polysulphide Sealant	Fosroc, Pidilite, Roff, MC Bauchemie, or approved equivalent make
11	ALUMINIUM	
a	Aluminium	Hindalco , Jindal, NALCO or approved equivalent make

b	Curtain Glazing	Hindalco, Jindal. Indal, or approved equivalent make
c	Adhesive tape	Norton ,3D or approved equivalent make
d	EPDM Gasket	Anand Reddiplex, Enviroseals or approved equivalent
e	Aluminium spacers	Lisec / Alupro or equivalent
f	uPVC Doors & Windows	Kommerling / Fenesta / Deceuninck india or approved equivalent make
g	Screw	Nettlefold, Paragon. or approved equivalent make
h	Fasteners	Hilti India Pvt. Ltd , Fischer, Bosch or equivalent
12	HARDWARE	
a	Floor Spring	Dorma BTS 65 , GEZE 1740004 (TS 500 NV), Hafele 932.79.040
b	Surface mounted door closer	DormaKaba TS Kompakt Door Closer with Std Arm, Kich DC512S & Hafele or approved equivalent )
c	Stainless steel grade 304 satin finish tower bolts 150mm	DormaKaba :9117696, Kich TBF36S & Hafele or approved equivalent)
d	Stainless steel grade 304 satin finish tower bolts 300mm	DormaKaba : 9117713, Kich TBF312S & Hafele or approved equivalent)
e	Stainless steel grade 304 satin finish pull handle 19 mm dia x 150 mm long	DormaKaba : TGDI-D 150, kich PRDH1906S & Hafele or approved equivalent
f	Stainless steel grade 304 satin finish pull handle 19 mm dia x 200 mm long	DormaKaba : TGDI-D 200 , Kich PRDH1908S & Hafele or approved equivalent
g	Stainless steel grade 304 satin finish pull handle 22 mm dia x 300 mm long	DormaKaba : TGDI-D 300 , Kich PRDH2212S & Hafele or approved equivalent
h	Stainless steel grade 304 satin finish pull handle 25 mm dia x 450 mm long	DormaKaba : TGDI-H 450 , Kich PRDH2518S & Hafele or approved equivalent
i	Satin stainless steel Foot operated Door Stopper with rubber buffer	DormaKaba : 9112195 , Kich DSTRS & Hafele or approved equivalent

j	Satin stainless steel wall mounted Door Stopper with rubber buffer	DormaKaba : 4012, Kich DST75S & Hafele or approved equivalent
k	Single point locking handles without Key for window	PL 205H of PULSE ( LGF Sysmac ( I ) Pvt Ltd / HD 03 of PEGO or approved equivalent
l	Stainless steel grade 304 sliding door bolt	300 x 16 mm. Hafele 911.81.881, Kich PRAD12612C or approved equivalent
m	Mortise lock with one side thumb turn & one side Key & pairs of lever handle with rose & escutcheons.	Dormakaba Pure Lever Handle 8906 + Mortice sash lock 271a + 3016 / Kich PRLH223S+MLB96S+PRPCKNS60 & Hafele or approved equivalent
n	Mortice bathroom lock	DormaKaba : Pure 8906 WC lever handle + 275a WC lock / Kich, Hafele or approved equivalent
o	Backset mortice dead lock, 20 mm square forend with 6 pin Euro Profile Cylinder with both side Key operation	Dormakaba Mortice dead lock 706 dead lock + 3026 / KichMDB96S+PRPCBSKS60+PREEP50S / Hafele or approved equivalent
p	SS grade 316 Grab bar 25 mm dia * 625 mm length	Dorma : GBD1, D-600 / Hafele / GEZE or approved equivalent
q	Stainless Steel Ball bearing hinges ( 4" x 3" x 3mm thick).	Dormakaba 3043FWD , Kich PRBHT2B34S & Hafele or approved equivalent
r	Friction Stay	Hettich, Hafele, Geze, Ingersoll Rand or approved equivalent
s	Shaft dead bolt with allen-key	Dorma : 8681 , Kich SDBA, Hafele or approved equivalent
t	Wardrobe Handle	CHA56S of Kich , 115.68.004 of Hafele or approved equivalent
u	Magnetic Catcher	Kich AWM13 / 246.84.713 of Hafele / or approved equivalent
v	Wardrobe Lock 22 mm	DL111S of Kich / 232.01.250 of Hafele or approved equivalent
13	PAINTS & DISTEMPERS	
a	Acrylic Distemper	Asian, Nerolac, Indigo, I.C.I..Birla opus






b	Synthetic Enamel	Asian, Nerolac, Indigo, I.C.I.
c	Acrylic/ Plastic Emulsion	Asian, Nerolac, Indigo, I.C.I., Birla Opus
d	Cement Paint	Snowcem, Durocem or approved equivalent
e	Premium Acrylic smooth Exterior Paint with silicon Additive	Asian paint Apex Ultima / Nerolac : XL total / ICI Dulux :Weather Shield max
f	Red oxide	Asian, Shalimar, Acroprime or approved equivalent
g	Silicon paint	Nerolac, Asian, ICI or approved equivalent
h	DUCO, Paint.	ICI, DUCO or approved equivalent
i	Putty	Goldsize, Shalimar Paints Ltd or approved equivalent
j	Polish	First Quality as per approved sample.
k	White cement putty	Birla, JK, Asian paint or approved equivalent make
l	EXTERNAL GRADE TEXTURE PAINTS	Asian Paint / Shalimar / I.C.I./ Birla opus as per approved sample
14	STONES	
a	Granite stone 18 mm thick /	First Quality as per approved sample/ approved quarries
b	Marble	First Quality as per approved sample/ approved quarries
c	Kotah Stone	First Quality as per approved sample/ approved quarries
d	Red Mandana Stone	First Quality as per approved sample/ approved quarries
e	Chunar stone	First Quality as per approved sample/ approved quarries
f	Red sand stone	First Quality as per approved sample/ approved quarries
g	Katni stone	First Quality as per approved sample/ approved quarries
h	Stone finish	Leather finish, Flamed , sand blasted & Leathered finish , Honed finish, natural Polished etc.
15	FIRE & ACOUSTIC DOORS	
a	Fire door & Fire rated hardware	Shakti Hormann Ltd, Navair or approved equivalent
b	Fire Glass	Borosilicate clear toughened Fire Glass minimum 6 mm thick of Schott or Saint Gobain.

16	MISCELLANEOUS	
a	Adhesive	Fevicol (Pidilite Ind. Ltd), Vamicol, Century SH, Araldite, Mansonite.
b	Pigments	Tata chemicals, Sudershan Chemical Industries.
c	Anti-termite.	Indo Gulf Pest Control, Montari Industries.
d	Norton Tape (Double sided) Adhesive tape	Norton, Supreme
e	S.S. Railings 316 grade with 50.8 mm dia tube top Handrail ,42.4 mm dia tube single baluster, 4 Nos. mid rail of S.S. tube 16 mm dia	Kich / Rinox / DORMA or approved equivalent
f	S.S. Railings 316 grade with 50.8mm dia tube top Handrail & SS flat single baluster 50mmx10mm, 5 nos. mid rail of SS tube 16 mm dia	Kich / Rinox / DORMA or approved equivalent
g	Bonding Agent	Nitobond EP of Fosroc / Sikadur 32LP of Sika / Concesive 1414 of BASF
h	Floor hardner	Nitoflor hard top of Fosroc / Chapdur of Sika / Master top hardner of BASF
i	GRC (Glass Reinforced Concrete) Jali	Unistone Product India Pvt. Ltd., Sanderson Theme Construction , Can Build Group

NOTE: All the Materials/Makes listed above and other than as specified above shall be used after obtaining prior approval from the Architect/Engineer-in-charge/Owner. Sample duly approved by Engineer-in-charge shall be kept in safe custody of contractor and displayed in board properly till completion of the project.

Notwithstanding any interim or final approval the contractor remains responsible for satisfactory performance of all fittings & fixtures. The liability of the contractor is not limited by any approval of the maker of materials.

The contractor shall organize to submit following samples for the project.

Aluminium & UPVC Doors & Windows profiles with accessories and hardware

All types of stone / Tiles and floorings

All types of Stone/tiles used for Dry Cladding and Internal Wall cladding

All types of Hardware as mentioned in BOQ

All types of Waterproofing samples as mentioned in BOQ

Any other material as required as mentioned in the BOQ

Glass Reinforced Concrete (G.R.C) Screens

Nothing extra shall be payable for the samples.

#### LIST OF MOCKUPS / SAMPLES

The contractor shall organize to prepare following mock-ups / prototypes for the project or as called for by the Engineer-in-Charge / Architect.

Aluminium Door & Window

UPVC Door & Window

*1/2/2*

*3/2*

Stainless steel grade 304 doors & frame (Fire door)

Stainless steel grade 316 Railings

6. EXTERNAL GRADE SMOOTH / TEXTURE PAINTS

7. Glass Reinforced Concrete (G.R.C) Screens

LIST OF SHOP DRAWINGS TO BE PREPARED BY THE CONTRACTOR

The contractor shall organize to prepare & submit shop drawings as instructed by the Engineer-in-Charge / Architect for all specialized items. Below is a list which is indicative but not complete.

All doors / Windows drawings and details

SS Railing

Expansion joints

Water proofing

Glass Reinforced Concrete (G.R.C) Screens

### LIST OF PREFERRED MAKES OF MATERIALS (PLUMBING WORKS)

S. No	Materials	Brand & Manufacturer
1.	Sanitary Fixtures & fittings	As per the Model no. & make given in BOQ items
2.	G.I. pipes	TATA/JINDAL HISSAR/SURYA ROSHNI
3.	G.I. Fittings for Water Supply (Malleable)	UNIK/JAINSONS/ZOLOTO/DRP
4.	SS Pipes 316	ALPHA PRESS/VIEGA/VSH SUDOPRESS
6.	uPVC pipes	PRINCE/ SUPREME/ ASHIRWAD/JAIN IRRIGATION
8.	CPVC pipes	ASTRAL/ASHIRVAD FLOWGUARD/JAIN IRRIGATION/Fenolex/Kisan
9.	Centrifugal Cast Iron Hubless Pipes & fittings	NECO/HEPCO or equivalent
10.	Gully Trap	ANAND/BK CERAMICS INDUSTRY
12.	RCC PIPES	KRISHNA SPUN PIPES/ OM SPUN PIPE/Vishwakarma pipe or approved equivalent.
13.	HDPE pipe for sewerage system (IS 14333)	ORIPLAST/ JAIN IRRIGATION/SUPREME
14.	Insulation For Pipes	THERMAFLEX, ARMACELL, M/s Llyod Insulation.
15.	Insulation For External / Exposed Pipes	THERMAFLEX, ARMACELL, M/s Llyod Insulation.
16.	Pipe protection For External Water Supply Pipes	PYPKOTE/MAKPOLYKOTE/ARMAFLEX
17.	Prefabricated Structural supports and clamps	CHILLY/EASYFLEX/CAMRY
18.	Paints	ASIAN PAINTS/INDIGO/SHALIMAR

16/5

SB

S. No	Materials	Brand & Manufacturer
19.	C.I Manholes cover	NECO/HEPCO
20.	SFRC Manhole Cover & Gratings	ABC-ACCURATE BUILDCON
21.	Plastic Encapsulated Footrest	KGM or equivalent
22.	Ball valves	LEHRY/SKS/CASTLE
23.	Butterfly valve	LEHRY/SKS
24.	Motorized butterfly valve with controller for OHT	LEHRY/SKS
25.	Air Release Valve	LEHRY/LEADER/SKS
26.	C.I double flanged sluice valve	KIRLOSKAR/LEADER/SKS
27.	C.I Strainer more than 65mm dia.	LEADER/SANT/AIP
28.	Solenoid valve	DANFOSS/HONEYWELL
29.	PVC Water storage tank	SINTEX/SHEETAL/SUPREME
30.	Prefabricated Grease separator	KESSEL/ACO

16/5

B

## LIST OF PREFERRED MAKES OF MATERIALS (WATER SUPPLY PUMPS AND EQUIPMENTS)

S. No.	Material / Item	Makes
1	Clear water pump	KSB/GRUNDFOS/XYLEM
2	Hydro-pneumatic Pumping System	KSB/GRUNDFOS/XYLEM
3	Submersible Sump Pumps	KSB/GRUNDFOS
4	Water Level Control & Indication System Integrators	ADVANCE AUTOMATION/TRICOLITE/DIAMOND
5	Electrical Panels	ADVANCE AUTOMATION/TRICOLITE/DIAMOND
6	Pressure Gauges	FIEBIG / H. GURU / DANFOSS
7	Dosing System	MILTON ROY/ ASIALMI / GRUNDFOS
8	Pump Vibration Pads & Suction & Delivery Flexible Connectors	EASYFLEX / RESISTOFLEX / DUNLOP
9	Power Cables and control cable	UNIVERSAL / POLY CAB / HAVELS
10	Cable Trays	MEK / STEELWALYS / PILCO
11	Filter & Softener	SIMA/ASTHA/WATCON
12	Electromagnetic flow Meters	IOTA / FORBES MARSHALL / ASTER
13	Switches, MPCB, MCB and MCCB,	Siemens / Schneider / Legrand
14	Contactors	Siemens / Schneider / Legrand
15	Push Button element/ Indicating Lamp	L&T / BCH / KAYCEE
16	Protective Relay	GECA / ABB / SIEMENS
17	G.I. pipes	TATA / JINDAL HISSAR / SURYA ROSHNI
18	G.I. Fittings	UNIK/JAINSONS/ZOLOTO/DRP
19	Ball valve	LEHRY/SKS/CASTLE
20	Butterfly Valve	LEHRY/SKS
21	C.I double flanged sluice valve	KIRLOSKAR/LEADER/SKS
22	Non return valves	KIRLOSKAR/LEADER/SKS
23	Motorized butterfly valve with controller for OHT	LEHRY/CASTLE/AIP
24.	Pressure reducing valve	RBM/TIMME/SKS
25	Strainer	ZOLOTO / SANT / CASTLE
26	Float switch	NOLTA / DANFOSS / HONEY WELL
27.	Prefabricated Structural supports and clamps	CHILLY/MUPRO/CAMRY
28.	Paints	ASIAN PAINTS/INDIGO/SHALIMAR
29.	C.I Manholes cover	NECO/KARTAR/RIF
30.	SFRC Manhole Cover & Gratings	KK/ABC-ACCURATE BUILDCON/SURABH
31.	Plastic Encapsulated Footrest	KGM/KK/ABC

### LIST OF PREFERRED MAKES OF MATERIALS (RO SYSTEMS)

S. No.	Material/ Item	Makes
1	R.O. Membranes	HYDRANAUTICS/DOW/PAINTAIR
2	Micro Cartridge Filters	PENTAIR/AMETEK/THERMAX
3	Activated Carbon Filters	PENTAIR/AMETEK/THERMAX
4	Dosing System	ASIA LMI/GRUNDFOS/MILTON ROY
5	R.O. Raw water Low pressure feed Pumps, High pressure feed pumps	GRUNDFOS/DP HOLLAND/FRANKLIN ELECTRIC
6	Hydropneumatics R.O. water supply pump	GRUNDFOS/DP HOLLAND/FRANKLIN ELECTRIC
7	CIP pump	GRUNDFOS/DP HOLLAND
8	PLC Control Panel	ALLEN BRADLEY/DELTA PLC/HONEYWELL
9	UPVC Pipes	SUPREME/JAIN PIPES/FINOLEX
10	SS Pipe	JINDAL STAINLESS/VSH/VIEGA
11	HDPE Treated water storage tank	SINTEX
12	Flow Meter	FORBES MARSHAL/ASTER/ EEE
13	Digital conductivity meter	FORBES MARSHAL/ASTER/ EEE
14	Pressure Gauge	DANFOSS/H.GURU/FIEBIG
15	Pressure switch	DANFOSS/HONEY WELL/SWITZER
16	ORP METRE	ASTER/ FORBES MARSHAL/EEE

## LIST OF PREFERRED MAKES OF MATERIALS (FIRE FIGHTING WORKS)

S.No	Materials	Brand &Manufacturer
1.	M.S Pipes	TATA/JINDALHISSAR/SURYA ROSHNI
2.	Butt Welded fittings	TRUE FORGE/DRP/SS
3.	D.I. Fittings	JAINSONS/ANVIL/SMITH COPPER
4.	D.I. Grooved Coupling Fittings	JAINSONS/VICTAULIC/JACKSON
4.	Ball valve	JAINSON/CIM/RB
6.	Butterfly Valve (upto PN 16)	JAINSON/KIRLOSKAR/SKS
7.	Air Release Valve	SKS/CIM/LEADER
8.	C.I Double flanged sluice valves	JAINSON/KIRLOSKAR/SKS
9.	C.I Double Flanged Non-return valve	JAINSON/KIRLOSKAR/SKS
10.	Dual Plate / Wafer Type Non-return valves (upto PN 16)	JAINSON/KIRLOSKAR/SKS
13.	Fire Extinguishers	SAFEGUARD/MINIMAX/LIFEGUARD
14.	First-aid Hose Reel Drum	SAFEGUARD/SUPEREX/LIFEGUARD
15.	Rubber Hose Reels for Drums	SAFEGUARD/SUPEREX/LIFEGUARD
16.	Thermo Plastic Hose Reels for Drums	SAFEGUARD/SUPEREX/LIFEGUARD
17.	R.R.L. Hose &C.P. Hose	SAFEGUARD/SUPEREX/LIFEGUARD
18.	Branch Pipe, Nozzle, Coupling etc.	SAFEGUARD/SUPEREX/LIFEGUARD
19.	Landing Valves	SAFEGUARD/ LIFEGUARD/ SUPEREX
20.	Fire Brigade Connections	SAFEGUARD/LIFEGUARD/SUPEREX
21.	Fire Fighting Equipment not covered else where	SAFEGUARD/LIFEGUARD/SUPEREX
22.	Hose Box	Reputed make as per IS: specification subject to approval of Samples/Technical Details.
23.	Sprinklers & Rosette Plates (All Types)	TYCO/VIKING/HD
24.	Motors for Fire Pumps	KIRLOSKAR/ABB/CROMPTON GREAVES
25.	Fire Pumps	KIRLOSKAR /MATHER PLATT/WILO/HBD
26.	Diesel Engine	KIRLOSKAR/ EICHER / MAHINDER
27.	Electrical Switch Gear	SIEMENS/L&T
28.	Cables	GRANDLAY/POLYCAB/HAVELLS
29.	Main Control panel (Power coated)	DIAMOND / ADVANCE AUTOMATION
30.	Voltmeter &Ammeter	AE/DUCATI

31	Y-Type / Pot / Suction Strainer	JAINSON/KIRLOSKAR/SANT
32	Foot valve with Strainer	KIRLOSKAR/KARTAR/LEADER
33	Batteries	EXIDE/AMCO-YUSSA/STANDARD
34	Flexible Connectors (Drop) for Sprinklers	SAFEGUARD/VIKING/FLEXDROP
36	Flow Switches /Monitor Modules	HONEYWELL/SYSTEM SENSOR/POTTER
38	Inspector Test Valves	JAINSON/GIACOMINI/BANCHANG
39	Pre-Fabricated Structural supports and clamps	INDTECH/CHILLY/CAMRY
40	Pressure Gauge	FIEBIG/H.GURU
41	Alarm Valve	NEW AGE / HD / MONSHER
42	Pipe Coat Material (Pipe Protection)	PYPKOTE/SHALIMAR/POLYCHEM
43	Dash fasteners	HILTI/FISHER
44	Paint / Primers	ASIAN/JENSON NICHOLSON/BERGER
45	Weld. Electrodes	ADVANI/ESSAB
46	Anti-vibration Pads & suction & delivery flexible connectors	EASYFLEX/RESISTOFLEX
47	Nuts/ Bolts	LAKSHMI/UNBRAKO
48	Contactors & overload relays, fude links and indicating lamps	L&T/SIEMENS/GE POWER
49	CT/PT Transformer	AE/KAPPA/C&S

### LIST OF PREFERRED MAKES OF MATERIALS (STP WORKS)

1	G.I. pipes	TATA /JINDAL HISSAR
2	G.I. Fittings for Water Supply (Malleable)	UNIK/ZOLOTO/SS
3	M.S Forged Steel fittings	VS/DRP/SS
4	UPVC pipes	SUPREME/JAIN PIPES/AKG
5	Pre-Fabricated Structural supports and clamps	CHILLY/EASYFLEX/CAMRY
6	Paints	ASIAN PAINTS/INDIGO
7	Gunmetal Fullway Valve	ZOLOTO/LEADER/SANT
8	Gunmetal Fullway Valve	LEADER/SANT/ZOLOTO
9	Ball valve	ARCO/CIM./TIMME
10	Butterfly Valve	KSB/SKS/AIP
11	Air Release Valve	RBM/TIMME/SKS
12	C.I double flanged sluice valve	KIRLOSKAR/LEADER/AIP



13	C.I Disk Type non return valves (65mm dia and above – Dual plate type)	KIRLOSKAR/LEADER/AIP
18	Clear Water Pumps	KSB/GRUNDFOS
19	Hydro-Pneumatic Pumping Systems	KSB/GRUNDFOS
20	Electrical Panels	ADVANCE AUTOMATION
21	Pressure Gauges	FIEBIG/ H. GURU
22	Dosing System	PENTAIR/ASIA LMI
23	Pump Vibration Pads & Suction & Delivery Flexible Connectors	EASYFLEX/ RESISTOFLEX
24	Cables	Gloster/CCI/NICCO
25	Cable Trays	MEK/STEELWALYS/PILCO
26	Water Meters	KENT/MARSHALL/IOTA
27	Switches and Fuses	Siemens/ GFC Alsthom
28	Contactors	Siemens/ L&T
29	Push Buttom element/ Indicating Lamp	L&T / L&T
30	Protective Relay	GECA/ L&T
31	Lighting distribution board	Controls & Switchgear
32	MCB	Indo Asian/ L&T
33	FRP/GRP Vessels	PENTAIR/THERMAX/STRUCTURAL
34	Air Blowers	EVEREST/BETA/ELGI
35	Ultra Violet Disinfection for Treated Effluent	ALPHA UV/SUKRUT
36	Air Diffusors	BOBKAY/REHAU/MM AQUA
37	Submerged/Floating Media	MM AQUA/PP Aquatech/Tube Deck
38	Dosing Pumps	MILTON ROY/ASIA LMI/GRUNDFOS
39	Sludge Pumps (Centrifugal)	KSB/JOHNSON/KIRLOSKAR
40	Sludge Pumps (Screw)	ROTO/UT PUMPS/MYTO
41	Testing Meters	ABB/SIEMENS
42	Centrifuge	APOLLO/ BA ENGINEERING

16/12/20

*[Handwritten signature]*