LOD

LODHA Acme Housing Manpada

Acme Ozone Sales Gallary

Contract Ref: 4630027497
Material Approval Submittal
MAS No: 2

Contractor: G Engineers
To LODHA Group:

Date: 02.03.2022

Discipline ☐ Architectural ☐ Structural ☐ HVAC ☐ Electrical ☑ Plumbing ☐ Facade Others - **Fire Fighting**

MATERIAL DETAILS (One Item Only Per Form)
Item description :- Sprinkler Flexible Hose

Name of material :- Sprinkler Flexible Hose

Remarks ☐ As per specifications ☐ Alternate submission

- Attach all relevant technical literature marked to identify relevant descriptions, current test certificate, samples etc.
- Highlight any element of contractual non-compliance in this submittal

Drawing Ref: -
Specification Ref: - **15 mm dia.**
BOQ Ref: - **1.02.3**
Indian/International Standards Ref: - **UL Listed**

Planned Date for applicable submittal for: -
1. O & M Manual
2. Training Manual
3. Specified /recommended spare parts
4. Warranties and Guarantees

Date:

Manufacturer / Supplier
Company Name: - **Newage Fire Protection Industries Ltd**
Address: **04, Champaklal Industrial Estate, Sion (E), Mumbai, Maharashtra 400022**

Local Agent:

Locally Manufactured :
Production Period :
Delivery Ex-works :
Total Delivery Time :
Total Delivery Time :

Programme: -
Date required on Site: -
Expected date of arrival on Site: -

Contractor's Authorized Signature
For G ENGINEERS
Proprietor

LODHA Engineer's Comments ☐ sign ☐ Mgmt (Civil). Cor ☐ gmt (MEP) Con. M ☐ nt (Facade) QA/QC ☐

Name/ Signature/ Date	Name/ Signature/ Date	Name/ Signature/ Date	Name/ Signature/ Date	Name/ Signature/ Date
QE	CM	Commercial/Contracts	Store	Co-Ordination

Consultant's Comments.

Name/ Signature/ Date	Name/ Signature/ Date
Architect	RCC Consultant

Status	Code 1	Code 2	Code 3	Code 4
	Work may proceed	Conditionally approved. Work may proceed and resubmit incorporating comments indicated	Revise & Resubmit. Work may not proceed	For information and records only. Work may proceed.

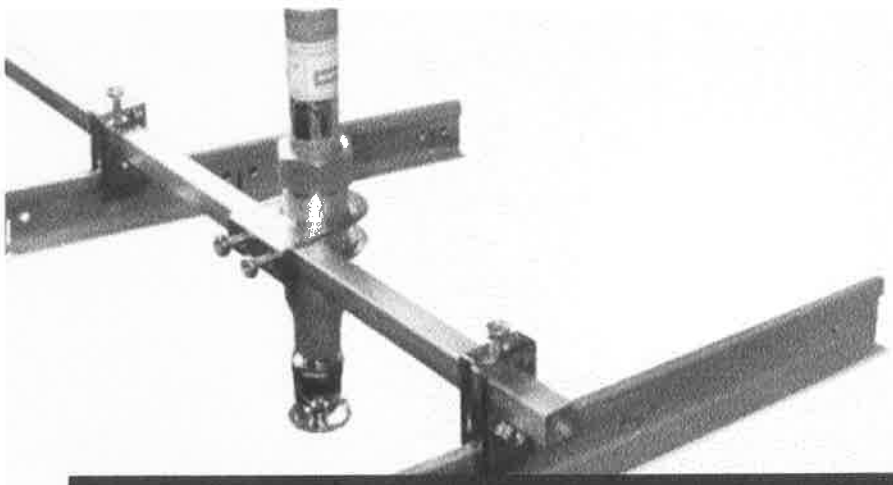
Vice President **Date: -**

CC: VP (QA/QC), VP (Purchase)

Code 1 – Work may proceed
Code 2 – Conditionally approved. Work may proceed and resubmit incorporating comments
Code 3 – Revise & Resubmit. Work may not proceed
Code 4 – For information and records only. Work may proceed

Unbraided Flexible
Sprinkler Hose

NEWAGE plus
Innovative Fire Solutions





Description	Material	Description	Material
Flexible Tube	Stainless Steel - 304	O-Ring	NBR/EPDM
Reducer, Nipple	SPHT2	Bracket L & Bracket S	SPCC - (Galv.)
Nut	SWRM6K	Square Bar	SGCC - (Galv.)
Isolating Ring	Polyamide 6	Bolt	SWCH 10A

Technical Specifications

Model	W.P. PSI/ kg/cm²	Outlet Inch (mm)	K-factor	Assembly Length, Ft (mm) permissible	Max NO. OF 90° bends Permissible	Min. Bend Radius in Inches.	Eq. Length of 1" Sc. 40 Steal Pipe (C=120), in feet
NFAP25-07	200 (14)	1/2"(12.7)	5.6 (80)	2.3 (700)	1	5	26
NFAP25-10	200 (14)	1/2"(12.7)	5.6 (80)	3.3 (1000)	1	5	36
NFAP25-12	200 (14)	1/2"(12.7)	5.6 (80)	3.9 (1200)	3	5	67
NFAP25-15	200 (14)	1/2"(12.7)	5.6 (80)	4.9 (1500)	3	5	84
NFAP25-18	200 (14)	1/2"(12.7)	5.6 (80)	5.9 (1800)	3	5	101
NFAP25-07	200(14)	3/4"(19)	8.0(115)	2.3 (700)	1	5	32
NFAP25-10	200 (14)	3/4"(19)	8.0(115)	3.3 (1000)	1	5	42
NFAP25-12	200 (14)	3/4"(19)	8.0(115)	3.9 (1200)	3	5	73
NFAP25-15	200 (14)	3/4"(19)	8.0(115)	4.9 (1500)	3	5	77
NFAP25-18	200 (14)	3/4"(19)	8.0(115)	5.9 (1800)	3	5	105
NI25UB-700	175 (12.25)	1/2"(12.7)	5.6 (80)	2.3 (700)	1	4	24
NI25UB-1000	175 (12.25)	1/2"(12.7)	5.6(80)	3.3 (1000)	2	4	44
NI25UB-1200	175 (12.25)	1/2"(12.7)	5.6(80)	3.9 (1200)	2	4	49
NI25UB-1500	175 (12.25)	1/2"(12.7)	5.6(80)	4.9 (1500)	2	4	59
NI25UB-1800	175 (12.25)	1/2"(12.7)	5.6(80)	5.9 (1800)	3	4	84
NI25UB-700	175 (12.25)	3/4"(19)	8.0(115)	2.3 (700)	1	4	30
NI25UB-1000	175 (12.25)	3/4"(19)	8.0(115)	3.3 (1000)	2	4	48
NI25UB-1200	175 (12.25)	3/4"(19)	8.0(115)	3.9 (1200)	2	4	55
NI25UB-1500	175 (12.25)	3/4"(19)	8.0(115)	4.9 (1500)	2	4	64
NI25UB-1800	175 (12.25)	3/4"(19)	8.0(115)	5.9 (1800)	3	4	86

All Sprinklers shall be rated for 12.0 Kg/sq.cm WG and factory tested for 34 kg/sq.cm. Sprinklers shall be pendant/upright or side wall type as specified and shown on drawings. All sprinklers shall be provided with an adjustable escutcheons finished same as sprinkler head, Wherever shown and specified sprinklers shall be concealed type.

Sprinkler head shall be of type and make approved by the Employer's Representative. The inlet shall be screwed for 15mm dia. as specified. The sprinkler head shall have CFO/ UL/ FM approval or listing.

Sprinkler shall be quick response type for all areas except car park (use up right sprinklers) and mechanical areas.

Contractor shall supply 2% spare sprinkler heads and one spanner (not separately payable), neatly installed in a wooden cabinet with glass shutters as approved by the Employer's Representative.

The orifice size shall be marked on the body or the deflector of the sprinkler.

Metal guards for protection of sprinkler against accidental or mechanical damage shall be provided as desired by the Project Manager.

Contractor shall submit detailed submittal and discharge spray pattern for the Sprinkler for the approval of consultant.

iii. Sprinkler Installation

Sprinkler heads shall be located in positions shown on the drawings. While slight relocation may result from building construction features or interference from other services, the maximum spacing between sprinkler heads and coverage area shall not exceed those stipulated in the Indian Standards regulations and the NFPA 13-Latest Edition Rules.

9. Installation Control Valves (Alarm Check Valve)

The sprinkler system shall incorporate one or more installation control valves as per IS:15105 standard & TAC. Alarm valve to be Ductile iron double seated clapper check valve with grooved seat design. The trim shall be with galvanising fittings and brass/bronze valve rated for 16 kg/sq.cm or 1.5 times working pressure whichever is greater. Trim shall be variable pressure with retardant chamber. Minimum working pressure to be 16 kg/sq.cm .Valve shall be factory hydro tested at 35 kg/Sq.cm. Alarm valve to be UL listed, FM approved. The Alarm check valve shall be suitable for installation under both variable and constant supply pressure conditions.

Installation valve assemblies comprising of following:

i) Main Alarm check Valve
ii) Gate/Butterfly valve
iii) In and out pressure gauges
iv) Precision retarding chamber
v) Supervisory switch, pressure alarm switch, flow switches
vi) Test connection of adequate size with valve and orifice plate with pressure connections.
vii) Alarm Water motor gong with necessary piping isolation valve and strainer and drain.
viii) Angle main drain valve, check valve, ball valves & indirect drain etc
ix) Restriction assembly.
x) Pressure relief trim kit

Work Order :4630027497
Version No : 0

SR. No.	ITEM DESCRIPTION	HSN/SAC Code	UNIT	QTY	RATE	AMOUNT
1.02.1	Fire Stop Sealant including Intumescent fire Sealant applied within the annulus, flush with top surface of floor and both surfaces of wall, and Packing material to be recessed from top surface of floor and from both surfaces of wall to accommodate the required thickness of fill material, etc., complete for the following sleeve openings and cutout sizes all fire rated for 2 hours. Sleeve Opening Sizes 100 mm diameter	995468	NOS	3,000	400,00	1.200,00
1.02.2	New Items Modification of existing piping & Sprinklers to suit the false ceiling layout including supply of necessary pipes, fittings	995468	NOS	45,000	2.500,00	112.500,00
1.02.3	SITC of Flexible sprinkler pipe to suit the flase ceiling height	995468	NOS	45,000	900,00	40.500,00
1.02.4	Removing and refixing of existing sprinklers	995468	NOS	45,000	150,00	6.750,00
	TOTAL OF AMOUNT					304.075,00
	IN: Central GST-ND for item, 1 9.00%					27.366,75
	IN: State GST-ND for item, 1 9.00%					27.366,75
	TOTAL TAX AMOUNT					54.733,50
	CONTRACT AMOUNT					358.808,50

(Rupees Three Lakh Fifty Eight Thousand Eight Hundred Eight And Fifty Paise Only)

You are requested to sign and return one copy of this order in token of your acceptance.

Thanking you,
Yours faithfully,
For M/s. Acme Housing Pvt ltd

Accepted:-
For G ENGINEERS

In order to improve our Corporate Governance record, our company has instituted a Transparency & Ethics Policy. In case you come across any unethical behavior of our employees, kindly contact us at mobile no 96199 93643 or e-mail address LodhaOmbudsman@gmail.com. Information so received will be kept strictly confidential.
We expect all parties working with the company to strictly abide by the Transparency & Ethics policy of the company, which is available on http://www.lodhagroup.com/TEP/EthicsPolicy.pdf or www.lodhavms.com and it explains our zero tolerance attitude to any act of corruption.

27	R.R.L. Hose IS:636 (Type-A) (marked) TAC	-CRC -Newage -Omex -Indian Rayon
28	Fire Extinguisher	-Safex -Newage -Firex -Safeguard
29	Anti vibration Mounting	- Dunlop -Easyflex -Resistoflex
30	Hose Cabinet (with Door)	-Safex -Newage -Superex -Minimax
31	Pressure Switch	-Danfoss -Honeywell -Switzer Instrument Co/Indfos
32	Sprinkler (UL/FM)	-HD-Globe -Tyco -Newage
33	Nozzle/ Curtain Nozzle (UL/FM)	-Viking -Newage -Tyco -Globe
34	Sprinkler SS flexible pipe	-Kanwal Industrial Corporation -Newage -HD -Safex
35	Expansion Bellows	-Easyflex -Flexionics -Resistoflex -System flex
36	Pressure Vessel	-Challenger -Nema -Aventura -Zilmet
37	Water Flow Switch	-Danfoss -Rapid control -Spray safe -System sensor
38	Water Flow Switch (UL/FM)	-System Sensor -Firelite -Globe vision -Notifier
39	Installation Control Valve - LPC / UL / FM / TAC marked	-HD-Newage -Kidde -Gem -Tyco

NEWAGE FIRE PROTECTION INDUSTRIES PRIVATE LIMITED

FIRE PROTECTION, SAFETY & RESCUE EQUIPMENT | FIRE DETECTION & SUPPRESSION SYSTEMS

NEWAGE PROTECTING INNOVATIVELY

TEST CERTIFICATE

G ENGINEERS - KANDIVALI
16, 1606, SPRING GROVE, AKURLI ROAD,
LOKHANDWALA TOWNSHIP, KANDIVALI EAST,
MUMBAI - 400101, MAHARASHTRA

CERTIFICATE NO	:	**BM/2122/03207 DATE. 15/02/2022**
INDENTOR NAME	:	**G ENGINEERS - KANDIVALI**
INDENTORS ORDER NO	:	**Email Dt: 14/02/2022**
PRODUCT	:	**NEWAGEFLEX UNBRAIDED FLEXIBLE DROP UL LISTED** **1) Unbraided UL Listed Flexible Drop UL Listed SS 304** **SIZE : - 1000MM ½" REDUCER 200 PSI Qty : 25 NOS.** **MAKE: NEWAGEFLEX UNBRAIDED FLEXIBLE DROP UL LISTED**
SUPPLIER NAME	:	**NEWAGE FIRE PROTECTION INDUSTRIES PVT LTD**
INVOICE DETAIL	:	**BM/2122/03207 DATE. 15/02/2022**
PROJECT ADDRESS	:	**G ENGINEERS** **C/O. LODHA ACME OZON** **GHODBUNDER ROAD,** **THANE - 400615**

We guarantee that the Newageflex Sprinkler Drops which we have supplied to you as per the above commercial invoice are tested as per safety standard of Underwriters Laboratories-UL/1474/2443 which covers the Burst pressure test 875 PSI (6030 Kpa) for the period of 1 minute while filling the water. Assemblies shall show no sign of distortions or leakage. Vibration tests at 500 PSI with frequency to be continuously varied between 18 to 37 Hertz, it has been tested for friction test, water hammer test, mechanical strength test, high temperature test, freezing test, salt spray corrosion with ASTL B 117 94 for 10 days without exhibiting any incipient corrosion.

The Guarantee of the above supplied **NEWAGEFLEX Flexible drops** is for 12 months (01 year) from the date of Invoice.

For, NEWAGE FIRE PROTECTION INDUSTRIES PVT LTD.

Authorized Signatory.