



Pradnya Niketan Education Society, Pune.

S. No. 80, 1/2/1, Baner - Mahalunge Rd, Lalit Estate, Baner, Pune, Maharashtra 411045
Website : www.orchidengg.ac.in or www.pnes.in, Email : office@orchidengg.ac.in

Contact : 8380048431/ 9960655755

TENDER NOTICE

Sealed tenders are invited from the reputed agencies/ suppliers for the Civil works & artificial turf work for development of sports infrastructure at-

N.K. Orchid College of Engg. & Tech., Solapur.

The detailed BOQ showing quantities and specifications for all the items of works is published on our College website.

Note : The tender to be submitted within 10 days from the date of publication by post or in person at one of the following address.

1) N.K. Orchid College of Engg. & Tech., Solapur.

Gut No. 16, Solapur-Tuljapur Road, Tale Hipparaga, Solapur-2

2) Pradnya Niketan Education Society, Pune.

S. No. 80, 1/2/1, Baner - Mahalunge Rd, Lalit Estate, Baner, Pune, Maharashtra 411045

SECRETARY

PRESIDENT

		SPORTS GROUND DEVELOPMENT	27-05-2023		
SR.NO	QUANTITY	ITEM	UNIT	RATE	TOTAL
1		BASKET BALL COURT			
A	434.72	Site cleaning by mechanical means for preparation of work, removing small trees, grass and levelling the ground including Labour charges for removing grass, thorney shrubs, Junglishrub, Kubabul and a like grass along road side making the ground clean by showel and phavaras etc. complete SSR Page NO.117, Item No.21.33	SQM		
B	130.42	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	CUM		
C	108.68	Supplying hard murumat the site, including conveying and stacking complete.	CUM		
D	86.94	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	CUM		
E	434.72	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
F	81.51	Supplying 40/60/10 mm aggregate at the site, including conveying and stacking complete.	CUM		
G	65.21	Spreading 40/60/10 mm aggregate for side width complete	CUM		
H	434.72	Compacting the 40/60/10 mm aggregate side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
I	434.72	Brooming the W.B.M. surface by wire Brushes, coir brushes, dusting, cleaning etc. for receiving the bituminous treatment complete. Brooming the water Bound Macadam surface by wire.	SQM		
J	26.08	BITUMINOUS MACADAM : Proving and laying bituminous macadam using crushed aggregates of Grading 1, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 60 mm compacted thickness with 3.3% using specified grade of Bitumen. -- USING Batch mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG-30 bulk bitumen rates are considered to arrive at rates)	CUM		
K	13.04	BITUMINOUS CONCRETE:-Proving and laying bituminous macadam using crushed aggregates of Grading 1, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 30 mm compacted thickness with 5.2% using specified grade of Bitumen. -- USING Batch mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG-30 bulk bitumen rates are considered to arrive at rates)	CUM		

L	434.72	10MM SEAL COAT : Providing and laying of Type A 10mm premix seal coat with HMP of appropriate capacity crushed stone chipping 6.7mm size and penetration bitumen of specified grade @1.2kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10MT. etc. complete.(VG-30 bulk bitumen rates are considered to arrive at rates)	SQM		
M	434.72	5 LAYERS BASKETBALL COURT SYSTEM: - ACRYFLEX UNIC FLOOR based emulsion to repair cracks of concrete and asphalt pavement. PRIMER: 100% ACRYFLEX UNIC FLOOR based emulsion to improve bond of acrylic court system to the concrete or asphalt surfaces. RESURFACER: 2 Acrylic Resurfacer 367-30 for filling and smoothing asphalt or concrete surfaces in preparation for Acryflex ITF Approved tennis court system. And also fills the surface chips, voids and conceals repairs while providing a smooth surface for PRECOAT: 2 layers of ACRYFLEX UNIC FLOOR) based textured tennis topcoat. Ideal for color coating tennis and basketball courts and other sport pavement surfaces.	SQM		
N	13.14	Providing and laying in-situ M20 Grade unreinforced plain cement concrete retaining wall over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS383, using fine and coarse aggregates combined gradation as per Table600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, ad mixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound / by providing cement vatain cement Mortar 1:8 @ 0.6m X 0.6m centre to centre, ad measuring 80mm mat bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	CUM		
2		VOLLY BALL COURT			
A	162.00	Site cleaning by mechanical means for preparation of work, removing small trees, grass and levelling the ground including Labour charges for removing grass, thorny shrubs, Junglishrub, Kubabul and a like grass along road side making the ground clean by shovel and phavaras etc. complete SSR Page NO.117, Item No.21.33	SQM		
B	48.60	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	CUM		
C	40.50	Supplying hard murum at the site, including conveying and stacking complete.	CUM		
D	32.40	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	CUM		
E	162.00	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
F	30.38	Supplying 40/60/10 mm aggregate at the site, including conveying and stacking complete.	CUM		
G	24.30	Spreading 40/60/10 mm aggregate for side width complete	CUM		

H	162.00	Compacting the 40/60/10 mm aggregate side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
I	162.00	Brooming the W.B.M. surface by wire Brushes, coir brushes, dusting, cleaning etc. for receiving the bituminous treatment complete. Brooming the water Bound Macadam surface by wire.	SQM		
J	9.72	BITUMINOUS MACADAM : Proving and laying bituminous macadam using crushed aggregates of Grading 1, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 60 mm compacted thickness with 3.3% using specified grade of Bitumen. -- USING Batch mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG-30 bulk bitumen rates are considered to arrive at rates)	CUM		
K	4.86	BITUMINOUS CONCRETE:-Proving and laying bituminous macadam using crushed aggregates of Grading 1, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 30 mm compacted thickness with 5.2% using specified grade of Bitumen. -- USING Batch mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG-30 bulk bitumen rates are considered to arrive at rates)	CUM		
L	162.00	10MM SEAL COAT : Providing and laying of Type A 10mm premix seal coat with HMP of appropriate capacity crushed stone chipping 6.7mm size and penetration bitumen of specified grade @1.2kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10MT. etc. complete.(VG-30 bulk bitumen rates are considered to arrive at rates)	SQM		
M	162.00	5 LAYERS LAWN VOLLEYBALL COURT SYSTEM: - ACRYPATCH - 100% ACRYFLEX UNIC FLOOR based emulsion to repair cracks of concrete and asphalt pavement. PRIMER: 100% ACRYFLEX UNIC FLOOR based emulsion to improve bond of acrylic court system to the concrete or asphalt surfaces. RESURFACER: 2 Acrylic Resurfacer 367-30 for filling and smoothing asphalt or concrete surfaces in preparation for Acryflex ITF Approved tennis court system. And also fills the surface chips, voids and conceals repairs while providing a smooth surface for PRECOAT: 2 layers of ACRYFLEX UNIC FLOOR) based textured tennis topcoat. Ideal for color coating tennis and basketball courts and other sport pavement surfaces.	SQM		

N	8.10	Providing and laying in-situ M20 Grade unreinforced plain cement concrete retaining wall over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS383, using fine and coarse aggregates combined gradation as per Table600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, ad mixtures, spreading, laying compacting and finishedina continuous operation without paver machine, finishing to lines and grades as directed byEngineer-in-charge and curing by curing compound / by providing cement vatain cement Mortar 1:8 @ 0.6m X 0.6m centre to centre, admeasuring 80mm mat bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by anyother method approved by Engineer-in-charge.	CUM		
3		TENNIS COURT			
A	264.00	Site cleaning by mechanical means for preparation of work, removing small trees, grass and levelling the ground including Labour charges for removing grass, thorney shrubs, Junglishrub,Kubabul and a like grass along road side making the ground clean by showel and phavaras etc. complete SSR Page NO.117,Item No.21.33	SQM		
B	79.20	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50m. beyond the building area and stacking and spreading as directed,dewatering, preparing the bed for the foundation and necessary backfilling, ramming, wateringincluding shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	CUM		
C	66.00	Supplying hard murumat the site, including conveying and stacking complete.	CUM		
D	52.80	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	CUM		
E	264.00	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
F	49.50	Supplying 40/60/10 mm aggregate at the site, including conveying and stacking complete.	CUM		
G	39.60	Spreading 40/60/10 mm aggregate for side width complete	CUM		
H	264.00	Compacting the 40/60/10 mm aggregate side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
I	264.00	Brooming the W.B.M. surface by wire Brushes, coir brushers, dusting, cleaning etc. for receiving the bituminous treatment complete. Brooming the water Bound Macadam surface by wire.	SQM		
J	15.84	BITUMINOUS MACADAM : Proving and laying bituminous macadam using crushed aggregates of Grading 1, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 60 mm compacted thickness with 3.3% using specified grade of Bitumen. -- USING Batch mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG-30 bulk bitumen rates are considered to arrive at rates)	CUM		

K	7.92	BITUMINOUS CONCRETE:-Proving and laying bituminous macadam using crushed aggregates of Grading 1, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 30 mm compacted thickness with 5.2% using specified grade of Bitumen. -- USING Batch mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG-30 bulk bitumen rates are considered to arrive at rates)	CUM		
L	264.00	10MM SEAL COAT : Providing and laying of Type A 10mm premix seal coat with HMP of aproprate capacity crushed stone chiping 6.7mm size and penetration bitumen of specified grade @1.2kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10MT. etc. complete.(VG-30 bulk bitumen rates are considered to arrive at rates)	SQM		
M	264.00	5 LAYERS LAWN TENNIS COURT SYSTEM: - ACRYFLEX UNIC FLOOR based emulsion to repair cracks of concrete and asphalt pavement. PRIMER: 100% ACRYFLEX UNIC FLOOR based emulsion to improve bond of acrylic court system to the concrete or asphalt surfaces. RESURFACER: 2 Acrylic Resurfacer 367-30 for filling and smoothing asphalt or concrete surfaces in preparation for Acryflex ITF Approved tennis court system. And also fills the surface chips, voids and conceals repairs while providing a smooth surface for PRECOAT: 2 layers of ACRYFLEX UNIC FLOOR) based textured tennis topcoat. Ideal for color coating tennis and basketball courts and other sport pavement surfaces.	SQM		
N	10.50	Providing and laying in-situ M20 Grade unreinforced plain cement concrete retaining wall over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS383, using fine and coarse aggregates combined gradation as per Table600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, ad mixtures, spreading, laying compacting and finishedina continuous operation without paver machine, finishing to lines and grades as directed byEngineer-in-charge and curing by curing compound / by providing cement vatain cement Mortar 1:8 @ 0.6m X 0.6m centre to centre, admeasuring 80mm mat bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by anyother method approved by Engineer-in-charge.	CUM		
4		CRICKET PITCH			
A	1728.00	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50m. beyond the building area and stacking and spreading as directed,dewatering, preparing the bed for the foundation and necessary backfilling, ramming, wateringincluding shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	CUM		
B	1555.20	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	CUM		
C	6912.00	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
D	518.40	Supplying hard murumat the site, including conveying and stacking complete.	CUM		

E	518.40	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	CUM		
F	3456.00	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
G	172.80	Supplying soft soil at the site, including conveying and stacking complete.	CUM		
H	172.80	Spreading soft soil/ gravel or kankar for side width complete	CUM		
I	3456.00	Compacting the soft soil side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
J	48.26	Supplying 40/60/10 mm aggregate at the site, including conveying and stacking complete.	CUM		
K	38.61	Spreading 40/60/10 mm aggregate for side width complete	CUM		
L	257.40	Compacting the 40/60/10 mm aggregate side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
M	257.40	Brooming the W.B.M. surface by wire Brushes, coir brushes, dusting, cleaning etc. for receiving the bituminous treatment complete. Brooming the water Bound Macadam surface by wire.	SQM		
N	19.31	Providing and laying in-situ M20 Grade unreinforced plain cement concrete pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS383, using fine and coarse aggregates combined gradation as per Table600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, ad mixtures, spreading, laying compacting and finishedina continuous operation without paver machine, finishing to lines and grades as directed byEngineer-in-charge and curing by curing compound / by providing cement vatain cement Mortar 1:8 @ 0.6m X 0.6m centre to centre, admeasuring 80mm mat bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by anyother method approved by Engineer-in-charge.	CUM		
O	128.70	Providing and laying Artificial Astro turf - i Includes supply and Installation of 50 mm Turf with Infills and All included.TECHNICAL SPECIFICATION :- PILE HEIGHT :- 50MM , TGUAGE :- 5/8" . DENSITY :- 14490S/M2 .YARN PE S SHAPE .DTEX :- 11500 .BACKING 2 LAYERS. STITCH RATE 23/10CM . SAND INFILLS 26.91KGS/SQM AND SBR 5.382KGS PER SQM	SQM		
P	36.00	Providing and laying in-situ M20 Grade unreinforced plain cement concrete retaing wall over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS383, using fine and coarse aggregates combined gradation as per Table600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, ad mixtures, spreading, laying compacting and finishedina continuous operation without paver machine, finishing to lines and grades as directed byEngineer-in-charge and curing by curing compound / by providing cement vatain cement Mortar 1:8 @ 0.6m X 0.6m centre to centre, admeasuring 80mm mat bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by anyother method approved by Engineer-in-charge.	CUM		
5		SYNTHETIC RUNNING TRACK			

A	1056.00	Site cleaning by mechanical means for preparation of work, removing small trees, grass and levelling the ground including Labour charges for removing grass, thorney shrubs, Junglishrub, Kubabul and a like grass along road side making the ground clean by showel and phavaras etc. complete SSR Page NO.117, Item No.21.33	SQM		
B	316.80	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	CUM		
C	264.00	Supplying hard murumat the site, including conveying and stacking complete.	CUM		
D	211.20	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	CUM		
E	1056.00	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
F	198.00	Supplying 40/60/10 mm aggregate at the site, including conveying and stacking complete.	CUM		
G	158.40	Spreading 40/60/10 mm aggregate for side width complete	CUM		
H	1056.00	Compacting the 40/60/10 mm aggregate side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
I	1056.00	Brooming the W.B.M. surface by wire Brushes, coir brushes, dusting, cleaning etc. for receiving the bituminous treatment complete. Brooming the water Bound Macadam surface by wire.	SQM		
J	63.36	BITUMINOUS MACADAM : Proving and laying bituminous macadam using crushed aggregates of Grading 1, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 60 mm compacted thickness with 3.3% using specified grade of Bitumen. -- USING Batch mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG-30 bulk bitumen rates are considered to arrive at rates)	CUM		
K	31.68	BITUMINOUS CONCRETE:-Proving and laying bituminous macadam using crushed aggregates of Grading 1, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 30 mm compacted thickness with 5.2% using specified grade of Bitumen. -- USING Batch mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG-30 bulk bitumen rates are considered to arrive at rates)	CUM		
L	1056.00	10MM SEAL COAT : Providing and laying of Type A 10mm premix seal coat with HMP of appropriate capacity crushed stone chipping 6.7mm size and penetration bitumen of specified grade @1.2kg/Sq.m, preparing existing road surface by mechanical means, spreading chips and rolling, by static roller having weight 8 to 10MT. etc. complete.(VG-30 bulk bitumen rates are considered to arrive at rates)	SQM		

M	1056.00	Supply & Installation of IAAF European Track Sandwich system which should have been officially recommended & certified by IAAF Federation to use in all International Athletics Competition, having base layer with SBR (In-situ) that is being entirely adhered to the asphalt base by means of a specially developed polyurethane adhesive and SBR Granules. Consumption rate over dense asphalt at consumption rate of SBR 7.0 kilogram /squaremetre and 1.45 kilogram /squaremetre of PU Binder. Priming should be with 0.20 kilogram /squaremetre, PU material for wear layer to be used 2.2 kilogram /squaremetre of poly urethane. Product should be tested and certified as per IAAF & EN-14877 Norms. Track should have a perfect thickness of 14.5 millimetre (+/- 3% max.-tolerance) with the 11 millimetre of the Base layer and 3 millimetre of wear layer. Manufacturer should be from Europe (No Asian / Turkey) and his products should have been used for European Championships. Surface average technical standards should include 0.86 MPA/millimetre Tensile Strength, 77%	SQM		
N	35.88	Providing and laying in-situ M20 Grade unreinforced plain cement concrete retaining wall over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS383, using fine and coarse aggregates combined gradation as per Table600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, ad mixtures, spreading, laying compacting and finishedina continuous operation without paver machine, finishing to lines and grades as directed byEngineer-in-charge and curing by curing compound / by providing cement vatain cement Mortar 1:8 @ 0.6m X 0.6m centre to centre, admeasuring 80mm mat bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by anyother method approved by Engineer-in-charge.	CUM		
6		FOOTBALL GROUND			
A	1350.00	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50m. beyond the building area and stacking and spreading as directed,dewatering, preparing the bed for the foundation and necessary backfilling, ramming, wateringincluding shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	CUM		
B	900.00	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	CUM		
C	9000.00	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
D	450.00	Supplying hard murumat the site, including conveying and stacking complete.	CUM		
E	450.00	Spreading hard murum/ soft murrum/ gravel or kankar for side width complete	CUM		
F	4500.00	Compacting the hard murum side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
G	843.75	Supplying 40/60/10 mm aggregate at the site, including conveying and stacking complete.	CUM		

H	675.00	Spreading 40/60/10 mm aggregate for side width complete	CUM		
I	4500.00	Compacting the 40/60/10 mm aggregate side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
J	4950.00	Supplying Geotextile sheet of 200 GSM at site location including transportation, loading and unloading etc. complete.	SQM		
K	4500.00	Laying Geotextile sheet of 200 GSM at site including nailing and 100 mm overlapping all sheet each other etc. complete.	SQM		
L	765.88	Providing perforated pipe of 150mm diameter in proper line, etc. complete.	RMT		
M	45.95	Supplying 10 mm aggregate at the site, including conveying and stacking complete.	CUM		
N	765.88	Laying perforated pipe of 150mm diameter in proper line, level and slope including excavation, 10 mm aggregate refilling surrounding pipe and fixing etc. complete.	RMT		
O	140.63	Supplying 6 mm and dust aggregate at the site, including conveying and stacking complete.	CUM		
P	112.50	Spreading 6 mm and dust aggregate for side width complete	CUM		
Q	4500.00	Compacting the 6 mm and dust aggregate side widths including laying in layers on each side with vibratory roller including artificial watering etc. complete.	SQM		
R	4500.00	Providing and laying Artificial Astro turf - i Includes supply and Installation of 50 mm Turf with Infills and All included. TECHNICAL SPECIFICATION :- PILE HEIGHT :- 50MM , TGUAGE :- 5/8" . DENSITY :- 14490S/M2 .YARN PE S SHAPE .DTEX :- 11500 .BACKING 2 LAYERS. STITCH RATE 23/10CM . SAND INFILLS 26.91KGS/SQM AND SBR 5.382KGS PER SQM	SQM		
7		RAIN HARVESTING WORK			
A	234.00	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary backfilling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	CUM		
B	46.80	Providing and laying in-situ M10 Grade unreinforced plain cement concrete retaining wall over a prepared sub base with 43 grade cement, coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, ad mixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound / by providing cement vatain cement Mortar 1:8 @ 0.6m X 0.6m centre to centre, ad measuring 80mm mat bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge.	CUM		

