



MIRA-BHAINNDAR MUNICIPAL CORPORATION



Garden Department

NAME OF WORK :- Supply and installation of Play equipment and open gym equipment in parks/grounds in Mira Bhayandar Municipal Corporation area.(Basic Amenities Fund)



(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
(A) PLAYGROUND EQUIPMENT					
1	<p>FRP TRIPPLE WAVE SLIDE HT 2.1 MTR</p>  <p>Ground Space: 5.6 Mtr x 2.5 Mtr Safe Play Area: 7.8 Mtr x 3.7 Mtr Structure, ladder & Platform:The platform structure pipes are of 80 NB B Class GI pipe. Ladder frame duly bend is of 25 NB B Class GI pipe. Platform is made of FRP 6-7mm thick with Anti-Skid design for firm foot grip. Triangular Steps are of 16 SWG GI sheet.FRP slide centre support is made of 80 NB B class GI pipe.FRP/ROTO railing support made from 20 NG B class GI pipe.Slide Chute- The Slide Chute is made from 6-7 mm thick Fiber Reinforced Plastic (FRP) material.Clamps,FRP/ROTO railing, Caps & Nut Bolts: Clamps for railing are made of Nylon 6 material. Railing is made from LLDPE material used is FOOD GRADE and meets the requirement for standard IS:10146 added with UV stabilizer and antioxidants to protect it from UV rays and oxidization, respectively. All Nut Bolts G. I material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap to protect from rain and dust.Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.</p>	No	5	263572	1317860
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	144.3	5200	750360
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	144.3	6345	915583.5
2	<p>FRP WAVE SLIDE HT. 2.1 MTR</p> 	No	5	95513	477565



(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	Ground Space: 5.3 Mtr x 0.61 Mtr Play Area: 7.5 Mtr x 1.8 Mtr Structure, ladder & Platform: The centre pipe is of 80 NB B Class GI pipe & Landing pipe is of 25 NB B Class GI Pipe. Ladder frame duly bend is of 25 NB & 20 NB GI B Class pipe. Platform is made of 14 SWG GI sheet with Anti-Skid design for firm foot grip. Triangular Steps are of 16 SWG GI sheet. Slide Chute: Deluxe Slide Chute is made from 3-4 mm thick Fiber Reinforced Plastic (FRP) material. Caps & Nut Bolts: All Nut Bolts G. I material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap to protect from rain and dust. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	67.5	5200	351000
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	67.5	6345	428287.5
3	FRP DELUXE PLAIN SLIDE HT. 1.5 MTR  Ground Space: 4.0 Mtr x 0.6 Mtr Safe Play Area: 6.2 Mtr x 1.6 Mtr Structure, ladder & Platform: The centre pipe is of 80 NB B Class GI pipe. Ladder frame duly bend is of 25 NB & 20 NB GI B Class pipe. Platform is made of 14 SWG GI sheet with Anti-Skid design for firm foot grip. Triangular Steps are of 16 SWG GI sheet. Slide Chute: Deluxe Slide Chute is made from 6-7 mm thick Fiber Reinforced Plastic (FRP) material. Caps & Nut Bolts: All Nut Bolts G. I material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap to protect from rain and dust Powder Coating: The Equipment shall first be coated with using Akzonobel / Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.	No	5	91823	459115
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	49.6	5200	257920
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	49.6	6345	314712
4	FRP ROLLER SLIDE 2.1 MTR 	No	5	175088	875440


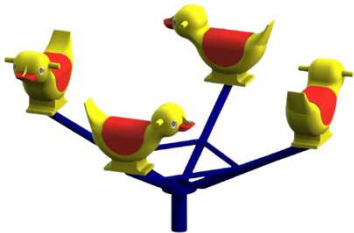
(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	<p>General information :</p> <p>Age group :- 4 – 12 yrs.</p> <p>Product area :- 5.8 m x 1.0 m</p> <p>Safe play area :- 6.8 m x 2.0 m</p> <p>Height :- 2.1m</p> <p>Material specification : the roller slide is made up of fiberglass reinforced plastic. The most attractive and enjoyable of its kind, the slide chute consists of molded plastic rollers spread over the length. The rollers are made up of HDPE with uv stabilized pigment. The square platform of the slide is made up of the fiberglass reinforced plastic. The vertical platform support pipes used are of 80 NB powder coated GI pipes. The railing is made in rotational molding. The slide entry is affixed on 80 NB and 80 x 20 NB nylon clamp. The ladder frame is made in 20 NB and 25 NB powder coated GI pipes. The triangular steps are made in 16 SWG GI sheets.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	68	5200	353600
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	68	6345	431460
5	FRP SPIRAL SLIDE HT. 2.1 MTR	No	3	151333	453999
	 <p>Ground Space: 4.2 Mtr x 2.0 Mtr</p> <p>Safe Play Area: 6.4 Mtr x 3.2 Mtr</p> <p>Structure, ladder & Platform: The platform structure pipes are of 80 NB B Class GI pipe. Ladder frame duly bend is of 25 NB B Class GI pipe. Platform is made of FRP 6-7mm thick with Anti-Skid design for firm foot grip. Triangular Steps are of 16 SWG GI sheet. slide centre support is made of 80 NB B class GI pipe. FRP/ROTO railing support made from 20 NB B class GI pipe. Slide Chute- The Spiral Slide Chute is made from 6-7 mm thick Fiber Reinforced Plastic (FRP) material. Clamps, FRP/ROTO railing, Caps & Nut Bolts: Clamps for railing are made of Nylon 6 material. Railing is made from LLDPE material used is FOOD GRADE and meets the requirement for standard IS:10146 added with UV stabilizer and antioxidants to protect it from UV rays and oxidation, respectively. All Nut Bolts G. I material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap to protect from rain and dust. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	61.44	5200	319488
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	61.44	6345	389836.8
6	DOUBLE ARC SWING	No	5	73554	367770
					

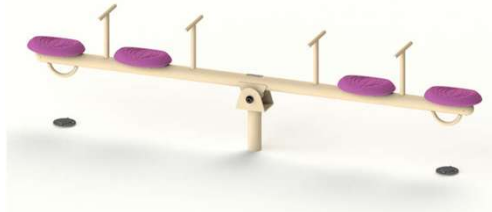
(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	Ground Space: 3.1 Mtr x 1.08 Mtr Safe Play Area: 4.3 Mtr x 5.0 Mtr Structure :The main pipe is of 80 NB B Class GI pipe & Top bar is of 50 NB B Class GI Pipe. Clamps, Chain & Rubber Belt: The swing is fixed on 6mm thick GI chain. The swing is made of 10mm thick Anti-Skid chequered reinforced rubber or moulded seat which is suspended with Plastisol coated short link chain with 6 Dia GI chain. Seat is made of rubber with Non-Skid surface with Nylon lining pattern. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	107.5	5200	559000
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	107.5	6345	682087.5
7	DOUBLE TODDLER SWING  Ground Space: 1.8 Mtr x 0.97 Mtr Safe Play Area: 3.0 Mtr x 3.5 Mtr Structure:The main pipe is of 50 NB B Class GI pipe & Top bar is of 50 NB B Class GI Pipe. Clamps, Chain & Rubber Belt: The swing is fixed on 6mm thick GI chain. The swing is made of 10mm thick Anti-Skid chequered reinforced rubber or moulded seat which is suspended with Plastisol coated short link chain with 6 Dia GI chain. Seat is made of rubber with Non-Skid surface with Nylon lining pattern. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.	No	5	80283	401415
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	52.5	5200	273000
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	52.5	6345	333112.5
8	DELUXE LUXURY SWING 	No	3	110780	332339.28



(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	Ground Space: 1.7 Mtr x 2.0 Mtr Safe Play Area: 5.0 Mtr x 3.2 Mtr Structure: The main pipe is of 40 NB B Class GI pipe & Top bar is of 50 NB B Class GI Pipe & the seat frame is made of 20 NB B Class GI Pipe. Clamps, Chain, Seat, Caps, Nut Bolts & Roof: The seat of the swing made of FRP with 4-5mm thickness. It is provided with FRP/PVC roof. The swing is fixed Plastisol coated short link chain with 6 Dia GI chain. All Nut Bolts G. I material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap to protect from rain and dust. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	48	5200	249600
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	48	6345	304560
9	PLATFORM MGR FRP TOP  Ground Space: 1.8 Mtr Dia Safe Play Area: 3.8 Mtr Dia Structure :The platform of this merry-go-round consists of Non-Skid type FRP Top of 8 mm Thickness. It is provided with handrails of 20 NB B Class GI pipes. Shaft & Bearings: Centre Support 70 mm bright Rod. Main housing Seamless Pipe. Main Bearing Thrust 51312 Bearing & Centre Guide Bearing 6310. The Bearing used in this item is of dual heavy-duty bearing lubricated with water sealant 51312 & 6310. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.	No	5	96146	480729.6
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	19	5200	98800
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	19	6345	120555
10	ANIMAL MGR 	No	5	45610	228051.2



(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	Ground Space: 1.8 Mtr Dia Safe Play Area: 3.5 Mtr Dia Structure : The animal MGR is structure made of 40 NB B Class GI Pipe. Mounted stand is made of 80 NB B Class GI Pipe & footrest pipe is made of 20 NB B Class GI Pipe. Structure support fabricated pipe is made of 25 NB B Class GI Pipe. Seat, FRP/ROTO Duck, Base Plate & Bearings: The animal seats fitted are of FRP/LLDPE type. LLDPE material used is FOOD GRADE and meets the requirement for standard IS:10146 added with UV stabilizer and antioxidants to protect it from UV rays and oxidization, respectively. Mounted main base plate thickness is 12 mm & housing with seamless pipe Dia of 104 mm & Centre Support Base Plate 16 mm Thick and Centre Rod 50 mm Thick. The Bearing used in this Item is of dual Heavy Duty Ball Bearing 6209 Taper Bearing 32209 of SKF, Tata & FAG Which is Permanently Lubricated and is With Water Sealant. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	17.5	5200	91000
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	17.5	6345	111037.5
11	MULTI SEATER SEE-SAW  Ground Space: 3.0 Mtr x 0.5 Mtr Safe Play Area: 4.5 Mtr x 1.5 Mtr Structure :The lever support of the Seesaw shall is made of 80 NB and handle is made of 20 NB GI Pipe. Stand made for 50 NB Pipe Angle Frame for Foundation with Lubricating Bush System. Caps, Nut Bolts, Seat, Bearing & Pin: There Shall be M.S Plate of Size 150 x 200 x 6mm Welded on 80 mm Pipe. Seat of See-Saw is made of FRP/ROTO moulding process with the wall thickness of 3/5mm. LLDPE material used is FOOD GRADE and meets the requirement for standard IS:10146 added with UV stabilizer and antioxidants to protect it from UV rays and oxidization, respectively. Bearing 6006ZZ used Housing 70 x 50 mm Seamless Pipe. Centre Pin is 32 mm of SAE8620 material. All Nut Bolts G. I material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap to protect from rain and dust. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.	No	5	37144	185718
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	33.75	5200	175500
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	33.75	6345	214143.75
12	VVIP BENCH	No	5	37911	189555

(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	 <p>Ground Space: 1.5 Mtr x 0.6 Mtr Safe Play Area: 2.3 Mtr x 2.0 Mtr Structure :This bench is an Attractive Kind of Bench for using it in Gardens or at Swimming Pools. This Bench Shall Comfortably Accommodate 3 Adults on it. The stand consist of Cast Iron Structure. Bench backrest support is made of 50 x 3mm MS Flat. The seating strips is made of Fiber Reinforced Plastic (FRP) material. Nut Bolts: All Nut Bolts G. I material. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.</p>				
13	PODIUM BENCH  <p>Ground Space: 1.3 Mtr x 0.6 Mtr Safe Play Area: 2.3 Mtr x 2.0 Mtr Structure :This bench is an Attractive Kind of Bench for using it in Gardens or at Swimming Pools. This Bench Shall Comfortably Accommodate 3 Adults on it. The Main Frame Shall be Made up of 25 NB B Class Pipe. The Seat Shall Consist of Fiber Reinforced Plastic (FRP) material which Shall be bent to Give Maximum Support to the Human Body. MS Flat 50 x 10mm is used. Caps & Nut Bolts: All Nut Bolts are G. I material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap to protect from rain and dust. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.</p>	No	5	29368	146840
14	FRP STRIP PIPE STAND BENCH	No	5	28623	143114.4


(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	 <p>Ground Space: 1.5 Mtr x 0.6 Mtr Safe Play Area: 2.3 Mtr x 2.0 Mtr Structure :This bench is an Attractive Kind of Bench for using it in Gardens or at Swimming Pools. This Bench Shall Comfortably Accommodate 3 Adults on it. The main frame shall be made up of 32 NB & 16 NB B Class GI Pipe. The seating strips is made of Fiber Reinforced Plastic (FRP) material.Caps & Nut Bolts: All Nut Bolts G. I material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap to protect from rain and dust.Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.</p>				
15	 <p>Descriptions</p> <ul style="list-style-type: none"> • Product Area : 1.5m x 0.55m (5.0ft x 1.8ft) • Safe Play Area : 2.5m x 1.55m (8.2ft x 5.0ft) • Age Group : 4-12 yrs • Friends at a time : 2 <p>Technical Specification:</p> <ul style="list-style-type: none"> •Main Frame:Total frame of the Double Bar is made up of 40NB GI pipes.The double bar being from exercise range provides a structure for physical exercise to the children. •Spacer Pipe: Spacer is made up of ISA 25X25X5mm & 50X10 GI flat. •Pipes: All metal pipes are Hot Dipped Galvanized Pipes with GI thickness of 60micron. •Powder coating: shall be done of pure polyester exteriors ultra-stabilized powder Paints. Thickness maintained is a minimum of 60-70microns. •Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps. <p>All open ends of pipe been closed by GI / PVC caps for user safety against entrapment.</p>	No	5	19510	97550
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	19.375	5200	100750
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	19.375	6345	122934.375
16	MAPS MARCUS	No	3	1332450	3997350.24

(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	 <p>Descriptions Product Area : 9.7m x 6.3m (31.5ft x 20.5ft) Safe Play Area : 11.7m x 8.3m (38ft x 27ft) Age Group : 5-12 yrs Friends at a time : 20 Platform Height : 3ft & 5ft Technical Specification: Platform:-Material:- FRP (Fiber Reinforced Plastic) with anti-skid surface on top. Thickness:- Minimum thickness of 3-5 mm and side flanges of 6-8 mm thickness. Size:- Center to center distance 1160mm. Others:- Ribbed structure on bottom side. Shape:- Hexagonal Brazing Frame:- ISA 25x25x5mm or ISA40x40x5mm thick and ISF 40x5mm thick which is galvanized and then duly Powder Coated. Clamp:- Made by Nylon 6 material by Injection Molding Process which is UV stabilized and having better strength to give support to other parts. Vertical Pipes:- 80NB GI pipes. Wall thickness as per the class of pipe used.</p> <p>FRP Mini Tube Slide:- Mini Tube Slide is made from FRP slide modules and landingmodules. The slide is supported with a „T“ support of 80 NB pipe. The MS flange with GI plating is used for fixing "T" support. FRP Spiral Slide:- The Spiral Slide & Slide Platform is made up of Fiber Reinforced Plastic (FRP) in one piece. Center Support pipe made from 80NB Galvanized pipe welded to 80NB Galvanized pipe. Spiral slide railings consists of 20NB hot dip galvanized pipe bended to form frame with two pairs of clamps joined together to GI Pipe with SS 304 graded non rusting nutbolts, made from Nylon Grade-6 plastic.</p> <p>The FRP/ROTO molded plastic bush & FRP/ROTO molded slim railing are inserted into the pipe frame in alternate pattern. The railing frame is bolted to Spiral slide platform with 20NB GI support pipe bolted to platform at one end & clamped with special nylon clamps to railing pipe frame.</p> <p>FRP Wave Slide:- Wave Slide chute is made up of FRP. The chute has its end such as it causes safe landing of the child. The landing portion is horizontal with respect to the ground. The landing of the slide is supported by stand made up of 25NB pipe and 5mm thick MS plate with GI plating.</p> <p>FRP Bowl Slide:- Bowl Slide chute is made up of FRP. The chute has its end such as it causes safe landing of the child. The landing of the slide is supported by stand made up of 25NB pipe.</p> <p>FRP/ROTO Slide Entry:- Slide Entry of the slide is made up of LLDPE by Rotational molding process. It is attached to deck pipe with the help of 20NB GI pipes and Injection Molded Nylon Clamps.</p> <p>Swinging Bridge:- Size:- 2400mm Material:- Frame - 80NB GI pipes 2384 mm long and GI plated MS angles of 75x75x5mm 1020mm. Planks - Low-Density Polyethylene Plastic in rotational molding process. FRP/ROTO Planks in same or different colors are suspended with the help of 12mm galvanized chains & specially designed clamps made up</p>				

(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	<p>Bridge Railing:- Railings are provided on both sides of bridge as barrier for safety purpose. It is made up of LLDPE in rotational molding process and has a support of 20 NB powder coated GI pipes. The railing is attached to the support pipe using an Injection Molded Nylon Clamps.</p> <p>FRP Staircase with Railing:- Material:- FRP (Fibre Reinforced Plastic) with a minimum thickness of 3-5mm or 16SWG Metal Sheet. The staircase has sufficient reinforcement to maintain strength and to avoid bending. The top surface of the ladder should be such that it should not deserve any kind of skiddy movement. Railings of 25NB GI pipes are provided for safety purpose.</p> <p>FRP Split Level Ladder:- Material:- FRP (Fibre Reinforced Plastic) with a minimum thickness of 3-5mm. The top surface of the ladder is anti-skid to avoid slippery movements. The Ladder is directly bolted to platform and is supported by 50x5 MS flat with GI plating.</p> <p>FRP Rock Climber:- Central pad of Rock Climber is made up of FRP (Fibre Reinforced Plastic). The rocks are mounted on platform and it has gradient from the ground. The ladder is supported by stand made up of 25NB G.I. pipe and 50x10mm thick flat from the bottom.</p> <p>Spiral Climber:- The spiral structure of the Spiral Climber is fabricated out of 25NB GI pipes and supported vertical support pipes of 40NB.The centre pole of the Spiral Climber is made up of 40NB GI pipe. It is attached to vertical deck pipes with the help of 20NB GI pipe & specially designed nylon clamps.</p> <p>Vertical Loop Climber:- The loops of the Varrtical Loop Climber is fabricated out of 25NB GI pipes and supported vertical support pipes of 40NB.The centre pole of the Spiral Climber is made up of 40NB GI pipe. It is attached to vertical deck pipes with the help of 20NB GI pipe & specially designed nylon clamps.</p> <p>Wave Net Climber 3ft:- The MAPS Wave Net climber is made from 18mm dia nylon rope.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	291.33	5200	1514916
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	291.33	6345	1848488.85
17	MAPS 22	No	3	977624	2932871.76
					


(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	<p>SQUARE DECK HT 2.1 MTR The platform shall be made up of Fiber Reinforced Plastic (FRP) 6 to 8 mm thickness with anti skid surface. Platform of each side should be equal in length 1.0m x 1.0m. The platform 4 Nos. support with 80 mm GI pipe. Top railing made up of 20mm G.I. pipes, Braising Square frame shall be made from 40 x 40 x 5 mm thickness MS angle, Total area required for Square deck 1.0 x 1.0 Mtr. Platform support pipe and Braising frame shall be powder coated. Platform inside 40 x 40 x 5 mm thickness MS angle Frame. Powder Coating Thickness 70-75 Micron with PP Powder of Reputed Brand only. To be Fitted using S.S. (Non Rusting) Nut Bolt 12 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.</p> <p>SQUARE DECK HT 1.5 MTR The platform shall be made up of Fiber Reinforced Plastic (FRP) 6 to 8 mm thickness with anti skid surface. Platform of each side should be equal in length 1.0m x 1.0m. The platform 4 Nos. support with 80 mm GI pipe. Top railing made up of 20mm G.I. pipes, Braising Square frame shall be made from 40 x 40 x 5 mm thickness MS angle, Total area required for Square deck 1.0 x 1.0 Mtr. Platform support pipe and Braising frame shall be powder coated. Platform inside 40 x 40 x 5 mm thickness MS angle Frame. Powder Coating Thickness 70-75 Micron with PP Powder of Reputed Brand only. To be Fitted using S.S. (Non Rusting) Nut Bolt 12 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.</p> <p>SQUARE ROOF Square Canopy shall be made of single mould Fiber Reinforced Plastic (FRP) with thickness of 2-3 mm. Size of Canopy 1500mm x 1500mm Height 800mm.</p> <p>HEXAGONAL DECK HT 1.5 MTR The platform shall be made up of Fiber Reinforced Plastic (FRP) 6 to 8 mm thickness with anti skid surface. Platform Diameter 2 Mtr. The platform 6 Nos. support with 80 mm GI pipe. Top railing made up of 20mm G.I. pipes, Braising Hexagonal frame shall be made from 40 x 40 x 5 mm thickness MS angle, Total area required for Hexagonal deck 2 x 2 Mtr. Platform support pipe and Braising frame shall be powder coated. Platform inside 40 x 40 x 5 mm thickness MS angle Frame. Powder Coating Thickness 70-75 Micron with PP Powder of Reputed Brand only. To be Fitted using S.S. (Non Rusting) Nut Bolt 12 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.</p> <p>HEXAGONAL ROOF The hexagonal canopy Triangular part is made up of Fiberglass Reinforced Plastic 3mm thick. Powder Coating Thickness 70-75 Micron with PP Powder of Reputed Brand only. To be Fitted using S.S. (Non Rusting) Nut Bolt 12 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.</p> <p>FRP DELUXE PLAIN SLIDE HT 2.1 MTR The Deluxe Plain slide shall be made of Fiber Reinforced Plastic (FRP) of 8 mm thickness both side gel coat finished. The Slide shape should be made of proper degree for safety sliding. Centre Support of slide 25mm G.I. Pipe, End support shall be made from 25 mm GI pipe. Powder Coating Thickness 70-75 Micron with PP Powder of Reputed Brand only. To be Fitted using S.S. (Non Rusting) Nut Bolt 12 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.</p> <p>ROCK SCRAMBLER HT 2.1 MTR Rock Scrambler platform shall be made up of 5 mm to 6 thick FRP (Fiber Reinforced Plastic) / LLDPE (Low linear Density Poly Ethylene) /FRP/ROTO. Rocks shall be bolted on same platform and ground support for the platform 25 mm NB GI pipe 50 x 10 MS flat shall be used. All pipes, flat shall be powder coated to avoid rusting.S.S. (Non Rusting) Nut Bolt 10mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material. Powder Coating 60 Micron with PP Powder.</p>				

(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	<p>ARCH SCRAMBLER HT 2.1 MTR The Arch Scrambler shall be made of 50 x 10 MS flat and 30mm GI Pipes with 25mm GI Pipes Steps, The Side Railing shall be made of 25mm GI Pipe. All Scramblers shall be powder coated or PU painted.</p> <p>SPLIT LEVEL PIPE LADDER The Frame of split level Ladder made 25mm MM GI Pipes & 20mm MM GI Pipes and clamped with 80 mm nylon clamp. All pipes shall be powder coated to avoid rusting. Powder Coating Thickness 70-75 Micron with PP Powder of Reputed Brand only. To be Fitted using S.S. (Non Rusting) Nut Bolt 12 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.</p> <p>FRP TOP RAMP LT 3.0 MTR The Platform shall be made of Fiber Reinforced Plastic (FRP) with anti skid Gel coat finish 6mm thick & M. S. Angle frame 40 x 40 x 5 The railing shall be made from 25mm & 20mm GI Pipes, All railing pipe shall be powder coated or PU painted. The railing shall be made from FRP (Fiber Reinforced Plastic) / LLDPE (Low linear Density Poly Ethylene) and shall be supported by 20 mm NB GI pipe and clamped with 80 mm NB and 80 (mm) x 20(mm) nylon clamp made with 66 nylon Material. Powder Coating Thickness 70-75 Micron with PP Powder of Reputed Brand only. To be Fitted using S.S. (Non Rusting) Nut Bolt 12 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.</p> <p>LADDER HT 1.5 MTR The Ladder chute shall be made from Fiber Reinforced Plastic (FRP) / Low Linear Density Poly Ethylene (LLDPE) only of 7 to 8mm Thickness. The chute has Non Skid finished. Powder Coating Thickness 70-75 Micron with PP Powder of Reputed Brand only. To be Fitted S.S. (Non Rusting) Nut Bolt 10 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.</p> <p>FRP DELUXE WAVE SLIDE HT 1.5 MTR The Deluxe Wave slide shall be made of Fiber Reinforced Plastic (FRP) of 8 mm thickness both side gel coat finished. The Slide shape should be made of proper degree for safety sliding End support shall be made from 25 mm MM GI pipe.S.S. (Non Rusting) Nut Bolt 6 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.Powder Coating 60 Micron with PP Powder.</p> <p>CROSS & ZERO This item provides brain-refreshing experience to the children and enhances their tactical strength by providing them an intelligent game. The prisms for the „X“ and„O“ of this item are made of blow moulded plastic. The prisms are fixed on a powder coated GI frame of 25 mm and 15 mm GI pipes. and clamped with 80 mm nylon clamp made with 66 nylon Material. All pipes shall be powder coated to avoid rusting.S.S. (Non Rusting) Nut Bolt 6 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.Powder Coating 60 Micron with PP Powder.</p> <p>DOUBLE SWING STD 50mm GI pipe is used as top bar having 1 No of Connecting junction Box 2 Nos of Leg support made up 40mm GI Pipes clamps assembly noiseless and Smooth movement to the swing round Plastisol coated short link chain of 6mm dia which can carry to hanging belt seat. Seat rubber with Non Skid surface with nylon lining is pattern. Triangular hook are moulded in belt in such a way that it would not project from the top surface of the belt Seats. S.S. (Non Rusting) Nut Bolt 10/6 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.Powder Coating 60 Micron with PP Powder.</p>				

(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	<p>SUSPENSION BRIDGE LT 2.9 MTR The Swinging Bridge shall be made of 10mm Thick tested chain link & FRP/LLDPE Steps, Steps made of 25 x 25 x 5 MS angle with 5 mm FRP/LLDPE. Top Bar 40mm GI Pipe. The railing shall be made from 25mm & 20mm GI Pipes, All Pipe & frame shall be powder coated or PU painted. The railing shall be made from FRP (Fiber Reinforced Plastic) / LLDPE (Low linear Density Poly Ethylene) and shall be supported by 20 mm NB GI pipe and clamped with 80 MM NB and 80 (mm) x 20(mm) nylon clamp made with 66 nylon Material. U nut 12 mm 4 Nos. S.S. (Non Rusting) Nut Bolt 10 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material. Powder Coating 60 Micron with PP Powder.</p> <p>FRP SPIRAL SLIDE HT 1.5 MTR The spiral slide chute is made up of 6mm thick Fiber reinforced plastic 6 to 8 mm thickness /LLDPE (Low linear Density Poly Ethylene). Weight ofFRP/ROTO Spiral is 70 KG & FRP Spiral Slide is 80 KG. Slide is supported on 80 mm center support GI pipe. The platform shall be made up of Fiber reinforced plastic (FRP) 6 to 8 mm thickness with anti skid surface. Platform on each side should be equal in length 1.0m x 1.0m. The platform is supported by 4 Nos. Vertical 80 mm powder coated GI pipes. Railing is provided to the platform and is made from low-density polyethylene, supported by 20 mm GI pipe with nylon Clamp. Ladder is made up of 25 mm GI pipe having railing of 20 mm. There are triangular steps 16 SWG GI sheet.S.S. (Non Rusting) Nut Bolt 10 mm/ 8 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material. Powder Coating 60 Micron with PP Powder.</p> <p>LOOP SCRAMBLER This shall be the kind of item that provides hanging experience to the children. The frame shall be fabricated out of 50 mm and 20 mm NB GI pipe. There shall be 09 triangular loops made from 15 NB, which shall be welded to the top pipe of the frame / Nylon Triangular Swinging Loops with high Quality 66 nylon Material. The top pipe shall be made out of 50/80 NB GI pipe. The ladder used shall be designed to the side support pipe itself. S.S. (Non Rusting) Nut Bolt 12 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.Powder Coating 60 Micron with PP Powder.</p> <p>FRP LADDER HT 1.5 MTR The Ladder chute shall be made from Fiber Reinforced Plastic (FRP) / Low Linear Density Poly Ethylene (LLDPE) only of 7 to 8mm Thickness. The chute has Non Skid finished. Powder Coating Thickness 70-75 Micron with PP Powder of Reputed Brand only. To be Fitted S.S. (Non Rusting) Nut Bolt 10 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material.</p> <p>FRP/ROTO RAILING The railing shall be made from Blow molding and shall be supported by 20 mm GI pipe and clamped with 80 mm nylon clamp. All pipes shall be powder coated to avoid rusting. S.S. (Non Rusting) Nut Bolt 6 mm & Nylon Lock Nut with Nylon Cap made with 66 nylon Material. Powder Coating 60 Micron with PP Powder.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	465	5200	2418000
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	465	6345	2950425
18	MAPS 68 	No	4	1144582	4578326.28


(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	<p>Descriptions:</p> <ul style="list-style-type: none">• Product Area : 21ft X 21ft• Safe Play Area : 28ft X 28ft• Age Group : 5-12 yrs• Friends at a time : 12 to 18• Platform Height : 5ft <p>Technical Specification:</p> <p>Platform:-Material:- FRP (Fiber Reinforced Plastic) with anti-skid surface on top. Thickness:- Minimum thickness of 3-5 mm and side flanges of 6-8 mm thickness Size:- Center to center distance 1160mm.Others:- Ribbed structure on bottom side Shape:- Hexagonal Brazing Frame:- ISA 25x25x5mm thick and ISF 40x5mm thick which is galvanized and then duly Powder Coated.Clamp:- Made by Nylon 6 material by Injection Molding Process which is UV stabilized and having better strength to give support to other parts.Vertical Pipes:- 80NB GI pipes. Wall thickness as per the class of pipe used.</p> <p>FRP Ladder 5ft:-Size:- 5 Ft Material:- FRP (Fiber Reinforced Plastic) with a minimum thickness of 3-5mm.The top surface of the ladder is anti-skid to avoid slippery movements.There is also provision for Handrails on ladder for better grip.The ladder is supported by stand made up of 25NB G.I. pipe and 50x10mm thick flat from the bottom.</p> <p>FRP/ROTO Spiral Slide 5ft:-The slide is completely made up of one piece with a thickness of 5-8mm keeping in consideration the ASTM & EN standards. The material used is LLDPE (Low-Density Polyethylene Plastic) in rotational molding process.Spiral slide railings consists of 20NB hot dip galvanized pipe bended to form frame with two pairs of clamps joined together to GI Pipe with SS 304 graded non rusting nut-bolts, made from Nylon Grade-6 plastic. The FRP/ROTO moulded plastic bush & FRP/ROTO molded slim railing are inserted into the pipe frame in alternate pattern.The railing frame is bolted to Spiral slide platform with 20NB GI support pipe bolted to platform at one end & clamped</p> <p>FRP Roller Slide:-FRP Roller Slide is made up of FRP (Fiber Reinforced Plastic).FRP Roller Slide side arm have reinforced pins for assembling the rollers.Roller made from LLDPE Material. The most attractive and enjoyable of its kind. The slide chute consists of rotaional molded plastic rollers spread over the length Roller provided with Nylon bush and are mounted on 12 mm dia rod and are fixed inside the slide chute.</p> <p>FRP/ROTO Straight Slide 5'ht: FRP/ROTO Straight Slide is made up ofLLDPE by Rotational Molding Process.The landing of the slide is supported by stand made up of 20 NB pipe and 5mm thick MS plate with GI plating.</p> <p>FRP/ROTO Slide Entry:-Slide Entry of the slide is made up of LLDPE (Linear Low Density Polyethylene) by Rotational molding process.It is attached to deck pipe with the help of 20NB GI pipes and Injection Molded Nylon Clamps.</p> <p>FRP Rock Climber:-Central pad of ROCK Climber is made up of FRP (Fibre Reinforced Plastic). The rocks are mounted on platform and it has gradient from the ground.The Rock Climber is supported by stand made up of 25NB G.I. pipe and 50x10mm thick flat from the bottom.</p> <p>S Loop Climber:-The vertical frame of the S Loop Climber is fabricated out of 80NB, 50NB and 20NB powder coated GI pipes respectively. Loops are hinged to top frame pipe with the help of S hook. The top pipe is made out of 50NB GI pipe which is bent in 'S' shape. The ladder used is designed to the side support pipe itself. Top frame is attached to deck pipe with the help of specially designed nylon clamps.</p> <p>Cross Checkered Railing:-Railings are provided on both sides of bridge as barrier for safety purpose. It is made up of LLDPE (Low-Density Polyethylene Plastic) in rotational molding process and has a support of 20 NB powder coated GI pipes. The railing is attached to the support pipe using an Injection Molded Nylon Clamps.</p> <p>FRP HexagonalCanopy:-The Hexagonal canopy is made of FRP (Fiber Reinforced Plastic) with a minimum thickness of 2-3 mm. The canopy is assembled from six modules and at</p>				


(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	<p>FRP (FIBER REINFORCED PLASTIC):-All the Fibre Reinforced Plastics (FRP) materials are processed by the hand laid process which is considered to be the best of its type. We use International quality Gel coats which are duly mixed with U.V 16 stabilized pigment to give the required color to the product. Thickness of the FRP material varies from 3 mm to 5 mm as per the product. The FRP material is tested for abrasion resistance & UTS (ultimate tensile test).</p> <p>LLDPE (LINEAR LOW DENSITY POLYETHYLENE):-The FRP/ROTO products are manufactured using material LLDPE (Linear Low Density Polyethylene) with UV stabilization of Food Grade Non Hazardous Plastic compiled to ROHS. Thickness of the FRP/ROTO products varies from 5 mm to 8 mm as per the product. The overall product obtain is a seamless to ensure perfect blend of uniform thickness & durability.</p> <p>Pipes: All metal pipes are Hot Dipped Galvanized Pipes with GI thickness of 60micron.Powder coating: It shall be done with pure polyester raw material.Dry film Thickness maintained within the range of 50-70 microns. It is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments.</p> <p>Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps.</p> <p>All open ends of pipe been closed by GI / PVC caps for user safety against entrapment.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	291.44	5200	1515488
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	291.44	6345	1849186.8


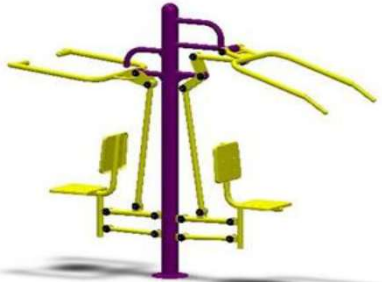
(B) OUTDDOR FITNESS EQUIPMENT

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
19	LEG LIFT POST	No	5	32346	161730
					


(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	<p>Descriptions</p> <ul style="list-style-type: none"> • Product Area : 1.8m x 0.8m (5.9ft x 2.6ft) • Safe Play Area : 2.8m x 1.8m (9.2ft x 5.9ft) • Ideal For : 13 Years & above <p>Function: • Target Abdomen and Thigh muscles</p> <p>Technical Specification:</p> <ul style="list-style-type: none"> • Main Frame: 80NB GI main vertical support pipe of LEG LIFT POST is fixed over 10mm thick base plate. • Back rest: 6 no of spacer pipes made by 25 NB G.I pipes are arranged in parallel at equidistance to form a back rest of product. • Handle: The paired handle pipe consists of 25NB galvanized pipe fixed at the top and bottom of 80NB support pipe main frame. • Pipes: All metal pipes are Hot Dipped Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 60micron. • Medium Duty ('B' Class) Series of pipes only.Wall thickness of pipe varies according to class/series of pipe used. • Powder coating:it shall be done with pure polyester raw material.Dry film Thickness maintained within the range of 50-70 microns.it is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments. • Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps. <p>All open ends of pipe been closed by GI / PVC caps for user safety against entrapment.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	25.2	5200	131040
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	25.2	6345	159894
20	SHOULDER SPINNER DOUBLE	No	5	52932	264660
	 <p>AREA :- 0.8 Mtr x 0.85 Mtr SAFE AREA:- 3.2 Mtr x 2 Mtr</p> <p>Structure, Grouting Support & Other Fixtures:The center pipe is of 80 NB made up of G.I. pipe. The handle movement round frame is made up from 25 NB „B“ class G.I. pipe. Bush, Pin & Bearings: Bush made from 60mm dia seamless pipe are used. Pins used of Diameter 25mm and 12mm are made up from SAE 8620 material.</p> <p>Bearing: Bearings are oil sealed, self-lubricated made of reputed brand make shall be provided for smooth & trouble-free movement. Caps, Knobs, Nut Bolts & Circlip: All Nut Bolts G. I /S.S material.</p> <p>Closing Caps are made up of LLDPE / HDPE /M.S. Nylon bush is used for handle knob and nylon cap mounted on pins to protect bearings and pins from rain and dust. The circlips for locking are A24 & A11.</p> <p>Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	32	5200	166400
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	32	6345	203040
21	FOREARM TWIRL	No	5	30791	153956.4



(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	 <p>Product Area : 1.5m x 0.8m (5ft x 2.6ft) • Safe Play Area : 2.5m x 1.8m (8.2ft x 5.9ft) • Ideal For : 13 Years & above Function: • Strengthens Shoulders & Forearms • Improves Wrist agility. Technical Specification: •Post Dia: 80NB GI main vertical support pipe of Shoulder Builder is fixed over 10mm thick base plate. 8 mm thick clamping plates are attached to main frame to hold the rest assemblies. •Wheel Structure: 25NB Galvanized pipe bend to form ring of wheel and spokes are made up of 15NB G.I. pipes that connect to each other to form a wheel of Shoulder Twirl. Nylon knobs are provided on the wheels for gripping purpose. This wheel is fixed to main support with the help of 40NB connector pipe with specially designed bearing housing. •Pipes: All metal pipes are Hot Dip Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 60micron. •Pipe Materials: Medium Duty ('B' Class) Series of pipes only. Wall thickness of pipe varies according to class/series of pipe used. •Powder coating: it shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns. It is tested for adhesion test (According to ASTM-D- 3359) with the help of cross hatch cutter instruments. •Bearing Housing shall be made from solid bar of MS material. •Bearing: Bearings are oil sealed, self-lubricated made of SKF/ NTN/ NACHI make shall be provided for smooth & trouble-free movement. •Pins and Circlips: 25mm diameter pins shall be made from EN8 material & Circlips made from standard material. •Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	22.5	5200	117000
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	22.5	6345	142762.5
22	CHEST & SHOULDER COMBINATION 	No	5	143046	715230.45


(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	<p>AREA:- 2.4 Mtr x 0.8 Mtr SAFE AREA:- 4.8 Mtr x 2 Mtr Structure, Grouting Support & Other Fixtures:The center pipe is of 80NB made up of G.I. pipe. The connecting pipes are made up from 25NB G.I. pipe. The handle frame is made up from 32NB G.I. pipe. The seats and Back rests are fitted on the outer frames are made up of M.S. Sheet of size 330mm X 300 mmX2mm thickness, deep drawn and pressed with uniform radius of 20 mm and no sharp edges. Bush, Pin & Bearings: Bush made from 60mm dia seamless pipe & 60mm diameter solid bar bush are used. Pins used of Diameter 25mm and 17mm are made up from SAE 8620 material. Bearing: Bearings are oil sealed, self-lubricated made of reputed brand make shall be provided for smooth & trouble-free movement. Caps, Nut Bolts & Circlip: All Nut Bolts G. I / S.S material. Closing Caps are made up of LLDPE / HDPE /M.S. The circlips for locking are A24 & A16. P.U. bush is used as Stopper to avoid the equipment abrasion. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000- hour salt spray test & MEK solvent resistance rub test – ASTM D5402.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	48	5200	249600
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	48	6345	304560
23	<p>ABS BOARD SINGLE</p>  <p>Descriptions: Product Area : 1.6m x 0.8m (5.2ft x 2.6ft) • Safe Play Area : 2.6m x 1.8m (5ft x 5.9ft) • Ideal For : 13 Years & above Function: • Strengthens Shoulders & Forearms • Improves Wrist agility. Technical Specification: •Main Structure: The ABS Board shall be having Ergonomic design with main support of 50NB Pipe. •Galvanized round pipe having 50NB with pipe rectangular 50 X 25 X 3 mm to be welded to the main support frame. • Backrest: Backrest sheet having 3mm thick to be made from FRP Materials •Pipes: All metal pipes are Hot Dipped Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 60micron. •Pipe Materials Medium Duty ('B' Class) Series of pipes only.Wall thickness of pipe varies according to class/series of pipe used. •FRP products: It is made up of Fiber reinforced plastic (FRP) process. It is made up of 3-4 mm thick fiber reinforced plastic. The FRP material is tested for abrasion resistance & UTS(ultimate tensile test) •Powder coating:it shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50- 70 microns.it is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments. •Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC. Bolt Caps. All open ends of pipe been closed by GI / PVC caps for user safety against entrapment.</p>	No	5	46388	231940.8
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	23.4	5200	121680
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	23.4	6345	148473
24	AIR WALKER	No	5	74603	373017.15



(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	 <p>• Product Area : 1m x 0.5m (5ft x 2.6ft) • Safe Play Area : 2m x 1.5m (6.6ft x 5ft) • Ideal For : 13 Years & above Function: • Strengthens Leg Muscles. • Lower body workout Technical Specification: •Post Dia: The Aerial Stroller having Ergonomic design with 80NB GI main vertical support pipe of Aerial Stroller is fixed over 8mm thick base plate.\ clamping plates are attached to main frame to hold the rest of assemblies. •Footrest and Handles: Footrest bend and Handle having 40NB and 25NB Dia galvanized pipe respectively.The materials used for foorest are aluminum/Nylon/LLDPE/HDPE •Specially designed mounting flange assembly having circular flange of 130mm dia with 16mm thickness is provided for footrest assembly •Pipes: All metal pipes are Hot Dipped Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 60micron. •Pipe Materials : Medium Duty ('B' Class) Series of pipes only.Wall thickness of pipe varies according to class/series of pipe used. •Powder coating:it shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns.it is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments. •Bearing Housing shall be made from solid bar of MS material. •Bearing: Bearings are oil sealed, self-lubricated made of SKF/ NTN/ NACHI make shall be provided for smooth & trouble-free movement. •Pins and Circlips: 35mm and 62mm diameter pins shall be made from EN8 material & Circlips made from standard material. •Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	15	5200	78000
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	15	6345	95175
25	DOUBLE STANDING TWISTER 	No	5	92703	463515


(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	AREA:- 1.8 Mtr x 0.6 Mtr SAFE AREA:- 4.2 Mtr x 1.8 Mtr Structure, Grouting Support & Other Fixtures:The center pipe is of 80NB made up of B Class G.I. pipe. T The bottom frame is of 32NB "B" class G.I. pipe. The handle frame is of 32NB "B" class G.I. pipe. The twister plate fitted on the bottom frame is made up of M.S. Round Plate of size Dia 300mm and 6mm thick. Bush, Pin & Bearings: Bush made from 75mm dia seamless pipe, Pins used of Diameter 35mm are made up from SAE 8620 material. Bearing: Bearings are oil sealed, self-lubricated made of reputed brand make shall be provided for smooth & trouble-free movement Caps, Nut Bolts & Circlip: All Nut Bolts are G.I / S.S material. Closing Caps are made up of LLDPE / HDPE /M.S. Powder Coating: The Equipment shall first be coated with using Akzonobel/Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	37.8	5200	196560
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	37.8	6345	239841
26	SKY WALKER DOUBLE  Descriptions • Product Area : 1.8m x 0.9m (6ft x 3ft) • Safe Play Area : 2.8m x 1.9m (9.2ft x 6.2ft) • Ideal For : 13 Years & above Technical Specification: •Post Dia: The Main frame of Sky walker is 80NB GI main vertical support pipe is fixed over 10mm thick base plate. •Footrest and Handles: Footrest are made from square Pipe 50x50x3 and handles from 25NB Dia galvanized pipe with Rubber grips. • Material used for Footrest are Aluminum/Nylon/HDPE/LLDPE. •Pipes: All metal pipes are Hot Dipped Galvanized Pipes with GI thickness of 40-60micron. •Pipe Materials: Medium Duty ('B' Class) Series of pipes only.Wall thickness of pipe varies according to class/series of pipe used. •Powder coating:it shall be done with pure polyester raw material.Dry film Thickness maintained within the range of 50-70 microns.it is tested for adhesion test (According to ASTM-D- 3359) with the help of cross hatch cutter instruments. •Bearing Housing shall be made from MS material. •Bearing: Bearings are oil sealed, self-lubricated made of SKF/ NTN/ NACHI / FAG/NRB make shall be provided for smooth & trouble-free movement. •Pins and Circlips: Pins shall be made from EN8/ MS material & Circlips made from standard material. •Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps. All open ends of pipe been closed by GI / PVC caps for user safety against entrapment.	No	5	106251	531253.8
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	26.6	5200	138320
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	26.6	6345	168777
27	PEDAL PUSH	No	5	58371	291856.95



(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	 <p>Descriptions: • Product Area : 1m x 0.48m • Safe Play Area : 2m x 1.48m • Ideal For : 13 Years & above Function:• Strength of lower limbs • Improving the stability and agility Technical Specification: •Main Frame: The main frame of Pedal Push is made from 40NB GI Pipe. •Handle: Handle frame is made from 25NB GI Pipe. Material used for handgrip is EPDM (ethylene propylene diene monomer) Rubber. •Footpedal: Footpedal is mounted on the ring of 40NB pipe. High quality Crank shafts and Pedal are used for the Footrest. •Bearing: Bearings are oil sealed, self-lubricated made of SKF/ NTN/ NACHI / FAG / NRB make shall be provided for smooth & trouble-free movement •Bearing Housing shall be made from MS material. •Pins and Circlips:Pins shall be made from EN8/ MS material & Circlips made from standard material. •Seat : The materials used for Seat is FRP/ LLDPE / Metal. •Pipes: All metal pipes are Hot Dipped Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 40-60micron. •Pipe Materials : Medium Duty ('B' Class)Series of pipes only. Wall thickness of pipe varies according to class/series of pipe used. •Powder coating: It shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns.it is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments. •Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	15	5200	78000
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	15	6345	95175
28	3 IN 1 (AERIAL STROLLER + LEG PRESS + SHOULDER TWIRL)	No	5	140321	701604.8
					

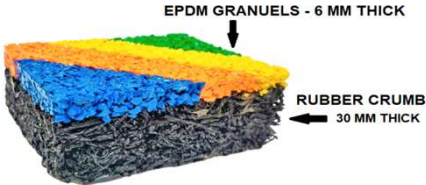
(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	AREA:- 2.35 Mtr x 0.84 Mtr SAFE AREA:- 3.85 Mtr x 2.84 Mtr Structure, Grouting Support & Other Fixtures:The center pipe is of 80NB GI pipe. Walker pedal frame duly bend is of 32 NB G.I. pipe. Air Walker handle frame is of 25 NB GI Pipe duly bend. MS plate of 245 x 113 x 2.8mm for footrest support. Air Walker Footrest made from LLDPE /Cast Iron. Bush, Pins & Bearings: Bush made from 60mm dia seamless pipe & 60mm dia Solid bar are used. Pins used of Diameter 25mm and 12mm are made up from SAE 8620 material. The bearings used are of 6205-2RS1 & 6201-2RS1 permanent lubricated sealed bearing of reputed brand. P.U. bush is used as Stopper to avoid the equipment abrasion. Caps, Nut Bolts & Circlip: All Nut Bolts G. I / S.S material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap mounted on pins to protect bearings and pins from rain and dust. The circlips for locking are A24 & A11. Powder Coating: The Equipment shall first be coated with using Akzonobel/Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 30-50 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	55	5200	286000
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	55	6345	348975
29	3-IN-1 (AERIAL STROLLER + LEG PRESS + SEATING TWISTER)  DIMENSION:- 2300mm (Length) x 860mm (Width) x 1600mm(Height). SAFE AREA:- 1.39 x 1.27 mtr Air Walker cum leg press cum seating twister Equipment made from class G.I.Pipe of different NB.NB Stands for Nominal Bore Sizes i.e Internal Diameter of pipe in millimetres.The main frame of 80NB made from G.I. pipe. The Seats and Back rests are made up of LLDPE / HDPE . The leg movement frame is of 32NB made from G.I. Pipe.The handle frame is of 25 NB made from G.I Pipe.Closing caps are made up of high quality Fiber reinforced plastic material. Pins used of Diameter 25mm are made up from SAE 8620 bright material. Bolt M8 x 16mm and Nylock nut of M8 made of SS 304 used on nylon cap mounted on pins to protect bearings and pins from rain and dust.Bearing: Bearings are oil sealed, self-lubricated made of SKF/ NTN / NACHI make shall be provided for smooth & trouble-free movement. High tensile steel galvanized nuts & bolts are used for assembly. A24mm cerclips are used for assembly. 300 mm diameter x 10 mm thick plate used for rotating seat of seating twister with 50NB G.I. Pipe. The footrests are made of LLDPE / HDPE / Cast Iron. The powder coating done with Pure Polyester powders from Ackzonoble or Berger Paints with minimum 60 to 70 micron thickness. Bolt M8 x 16 mm and Nylock nut of M8 made of SS 304 used on nylon cap mounted on pins to protect bearing and pins from rain and dust.	No	5	163534	817670.7
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	9.1	5200	47320
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	9.1	6345	57739.5
30	3 - IN - 1 (AERIAL STROLLER + LEG PRESS + STANDING TWISTER)	No	5	142593	712966.8

(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	 <p>AREA:- 2.84 Mtr x 0.63 Mtr Safe area :- 3.85 Mtr x 2.60 Mtr Structure, Grouting Support & Other Fixtures:The center pipe is of 80 NB GI pipe. Walker pedal frame duly bend is of 32 NB G.I. pipe. Air Walker handle frame is of 25 NB GI Pipe duly bend. . Air Walker Footrest made from LLDPE / HDPE /Cast Iron. The twister plate fitted on the bottom frame is made up of M.S. Round Plate / LLDPE / HDPE. Bush, Pins & Bearings: Bush made from 70mm, 60mm dia seamless pipe & 60mm dia Solid bar are used. Pins used of Diameter 35mm, 25mm and 12mm are made up from SAE 8620 material. Bearing: Bearings are oil sealed, self-lubricated made of SKF/ NTN / NACHI make shall be provided for smooth & trouble-free movement. P.U. bush is used as Stopper to avoid the equipment abrasion. Caps, Nut Bolts & Circlip: All Nut Bolts G. I / S.S material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap mounted on pins to protect bearings and pins from rain and dust. The circlips for locking are A24. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 50-70 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000 hour salt spray test & MEK solvent resistance rub test – ASTM D5402.</p>				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	50.05	5200	260260
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	50.05	6345	317567.25
31	4 IN 1 COMBINATION (SEATED PULLER + LEG PRESS + SURF BOARD + SEATING)	No	5	290522	1452609.6
					

(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	Area: - 2.93 Mtr x 1.81 Mtr Safe Area: - 4.5 Mtr x 4.5 Mtr Structure, Grouting Support & Other Fixtures: The center pipe is of 80 NB GI pipe. Walker pedal frame and leg press frame duly bend is of 32 NB G.I. pipe. Air Walker handle frame is of 25 NB G.I. Pipe duly bend. Moving frame of Surfer is made from 40 NB G.I. Pipe. The connecting pipes of seated puller are made up from 25 NB G.I. pipe. The handle frame is made up from 32NBG.I. pipe. Air Walker Footrest made from LLDPE / HDPE /Cast Iron. Bush, Pins & Bearings: Bush made from 75mm, 60mm dia seamless pipe & 60mm dia Solid bar are used. Pins used of Diameter 25mm, 17mm and 12mm are made up from SAE 8620 material. Bearing: Bearings are oil sealed, self-lubricated made of SKF/ NTN / NACHI make shall be provided for smooth & trouble-free movement. P.U. bush is used as Stopper to void the equipment abrasion. Caps, Nut Bolts & Circlip: All Nut Bolts G. I material. Closing Caps are made up of LLDPE / HDPE /M.S. Nylon cap mounted on pins to protect bearings and pins from rain and dust. The circlips for locking are A16, A24 & A34. Powder Coating: The Equipment shall first be coated with using Akzonobel /Berger /Prime make or its equivalent primer powder coating of at least 30-40 microns followed by Polyester Powder Coating of at least 50 -70 microns thickness using Akzonobel /Berger /Prime make or equivalent. Powder coating colour is TGTC & Lead free & passes the 1000-hour salt spray test & MEK solvent resistance rub test – ASTM D5402.				
	PCC - PER SQ. MTR FOR RUBBER MAT AND ARTIFICIAL GRASS	Sq. Mtr	101.25	5200	526500
	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC	Sq. Mtr	101.25	6345	642431.25
32	PCC - PER SQ. MTR FOR RUBBER MAT 1. Excavation for foundation in earth, soil of all types, sand, gravel and soft murum up to 0.50 meter depth including removing the excavated material , stacking and spreading as directed including dewatering (unless provided elsewhere,)preparing the bed for the foundation and necessary backfilling, ramming, watering complete excluding shoring and strutting . 2. Providing dry trap/ rubber stone soling 15 cm to 20 cm thick including hand packing and compacting etc. Complete. 3. Proving and laying in situ plain cement concrete 1:1 1/2: 3 (m- 20) of trap metal for foundation and bedding including bailing out water manually, form work , compacting and curing. 4. Proving second class burnt brick masonry with conventional / i.s. Type brick in cement mortar 1: 6 in foundation and plinth of inner walls/ in plinth of external walls including bailing out water manually , striking joints on unexposed faces racking out joints on exposed faces and watering completing. 5. Proving external cement plaster 20mm thick in one coat in cement mortar 1: 4 to concrete or brick surface or stone surface in all positions and curing complete.Ecolastic coloured epdm granules available in:	sq.mtr	0	5200	0
33	RUBBER FLOORING - PER SQ.MTR WITHOUT PCC  SAMPLE IMAGE FOR EPDM RUBBER FLOORING	sq.mtr	0	6345	0

(ABSTRACT) (ESTIMATE)

SR. NO.	PARTICULARS	Unit	QTY	Rate	AMOUNT
	Proving and fixing rubber flooring: 36 mm consist of rubber crumb : 30 mm granules (Rubber Crumbs) 6mm epdm rubber flooring epdm rubber (ethylene propylene diene monomer (m class rubber) having following Technical data: Density 780 g/cm ³ Tolerance ±10, Hardness 65 Shore Tolerance ±5, Tensile Strength >5.5 Mpa, Elongation at break >580%, Colour Stability 4-5 Grey Scale, EPDM Content 22% Tolerance ±0.5%, Base Polymer is Ethylene Propylene Diene Rubber (EPDM)				
	Total				49903545.79
			Say As ...		Rs.4,99,03,546/-