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DATE:-29-07-24

REF :- KCCI/20/2024-25

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To, Paloma Realty Kanpur site

Kind Attention :-Mr.Gopal Verma Ji

Doar Sir, Please find the attachment of BOO,

	BILLS OF QUANTITIES	TTES				
PALDMA	PALONIA MEALTY, KANPUR				PILING WORK	뇖
	RILLS OF QUANTIES	se.				
DRAFT						
88 WD	PARTICIZARS	7.67.2	RAYE	GEOWETT	ZMODNIY	Т
<u> </u>	PILING WORK. Mobilisation of work site with all recessory pents, equipments, biling rigs increasing personne and excellent alle complete and an exhibition of piling work demokitions alle will all the plaits, equipments, piling rigs, necessory personne brought to site with all the plaits, equipments, piling rigs, necessory personned brought to site indicates and reinstaining site to original pancition acceptable to the Pili.	המאלרות]			e 3.00, the a.w.	1.1
2	Emidding and constructing east to star bored Pilea using year, yingthey riggs, Shaps includes diffing through all type of strate up to founding level accordance with the Chacter of dawng including setting but parcinal paths, average to verather mough all strates including soft next developed paths, as the path of steal essing upon not chapted activities of as typhology wherever required, disposal of bared maler strates the site is approved treath wherever the control of paths of regulation, inspeciate of lead as directed, lowering the reconcern eage, we let a new bars of appointed dia with official veil and or we disposed by the paths well and to have disposed to have disposed by the following the location of the new specification. Why king the Parching work 5.0m; below Essement 33).					
	NOTE : The cult dish Level, or, Fues to (47700mm, writher) in selvery, area a (48800 widher) truet area. (47800mm is, Pie (300 MT)	H.M	* 2,700,h0	5599	************************************	

OTWO WIND INTERPRETATIONS		QUANTITY CASHAT	. 6053 + 1.6467.200.00	1129 716,93,300,00	#####################################
		AM JE	52,780.m	OWNOS'T A	* * * * * * * * * * * * * * * * * * *
	83	FWIT	Ę	Rud	ā
PALOIGA REALTY, HANPUR	ANTS OF QUANTUES	Puttering	Proylding, machine in this are leging designed with 7 ready mix. Maif grade inclinated element connects (RGC) using 23mm nominal size well graded approved in felfy engaged and sand as por approve nestign mix as per 18 code and with mixturent certaint as per approve nestign mix as per 18 code and with mixturent certaint as per approved a Students Consultant, which are a maximum water certain take 0.42 including using approved admissionally withdring / certification Config. Config. 3 self-300 from Chaptering surfaces, junctions, bearing decely surfaces to be presented to the carbodic cut for 600mm above the catal depths, halpha, 190 from the perd, vehing confairing the carbodic cut for 600mm above the catal fevel which will not be perd, vehing confairing the carbodic cut for 600mm above the catal fevel (200 from the perd, vehing confairing the catal confair catal ca	Tempty Borting moderne from the working piction level to the dubbif levels of the piece of the piece of the piece of the field will be fired will approved the sand. Working pletform Bash is considered as 44.75m level.	Providing and thing stock relationsement for RCC including bransporting, shoulding, shoulding, handling and glading in position at all levels and bridging with approved quality 6 anneared bridging wise of 19 gauge for each beening deel-tree. In presidentially, a summer of bridging wise grace as of source. The rate shall handle approved conteming to 18 2011, bard I with carrier size PVO cover blacks at approved contents cover blacks of same grace as of connects. The rate shall handle cost of binding vise, classic of same grace as of connects. The rate shall handle cost of binding vise, classic operations of steel as per bar conting schedule at approved by the PK and with authorized overlaps only shall be measured and meathers if applies the expressive and anothers of applicable to the provide a track of the safety and operations of an experience overlaps and applies a benefit of any shall be prevented by the PK and all depines a benefit of 13 1736 × Fe 500 greater.
ST CIFE	DRAFT	SR. AD	<u> </u>	3,	8.

	SILLS OF CLAMPTIFES	4:					
DRAFT KR. ND.	PAKTYCUARR	TANE	RATE	QUANTILL		A MOUNT	
<u> </u>	Carry excload testing of pastin-sturent remionsed consell concells through glas using Plic. Dériva Australia de pastin-sturent politication of machine and supproved by Structural Consultant. Equipment shall be able to record to serial velocity by using strain and accelerant series. Test load shall be able to record (cross end velocity by using strain and accelerant series). Test load as recommendate. Lest report shall be written. It is of test oad as recommendate. Per consultant is only occupable to series. The forth shall be able to series of as recommendate. Per consultation of test consultations are shall be able to series. The forth shall be shall be capable to shall be capable to the pre-displacement. Per land test pre-displacement. Pet and test out minimum 14 days after installation of pile. Report shall be submitted with the capable of testing.	No:		<u></u>		ማ.ከ3.ማህመስ ተ ዋ	
9:	Berry and high sitrativ dynamic load tasking of capalinatio continued coment concress barry and high sitrativ dynamic load tasking of capalination continued coment concress barry such a capalina and selected to the manufactures of the order of the capalina and selected to the capalination and selected to the capalination and selected to select the first of the follows. The harment weight shall be minimum. So if sell lead as recommended. A factor would be capacity A factor would find the capacity A factor would find the capacity A factor would be capacity A factor would be capacity A factor would be capacity A factor while a safety and the factor of the factor will be capacity and the c	ri H	e 2,00.WM 00	.•		7,000,00,55 5	•
ri	Providing, anglueting and subpiting decurpender report on REG bared pile integrity fast ruths pile integrity teatmon completion of recured setting of plas, prevading of plass, or expectation of leases, prekitiving and despatissing of equipments all complete. Report should include proposes wave form, integretation of results, also exclude the result integrated or plantity or integrated quantity as all controlled on forming to ASTMD6883 and to selected or any integrated or some PM.		7.7.300,00.		<u>k</u>	መነመግሪያት ል	
tt.	Chipping and deceing of the R.C.C. plas upor bright of 600mm including descring relativement and remove, of dismanted materials uply a decende of 50 malar begans to familiary area on the providing plainage. Spacification					gOD : Fago 3 ni 48EAL OF TENDERER	F TEXDERER

Any sought of further information required regarding this matter, we will be glad to furnish as same. Thanking you and assuring you for our hest services at all the time.



Yeurs faithfally, Mr.Nitin Gupta (Director) Krish Cold Chain & Infrastructure Pvt. Ltd, Mr 491 9868032246

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7	`\		>			>			`	`		
	Disposal of all type excavated material.	Identification, Shifting / Removal, Diversion of Utilities, and other Services.	Supply of: Electricity, Water and Area Illumination	The Client shall provide space for (Labour camp, Office Setup; Store Office and Reinforcement Cage Fabrications etc.) within the plot area. However, all the developments shall be in scope of Contractor.	Security, Watch & Ward	Providing / Supply of: Binding Wire, PVC or Concrete Cover Blocks, etc	Survey & Alignment Works	Contractor All Risk (CAR) Policy	All necessary Machinery and Equipment including Fuel, Filters and Wire Ropes etc. All necessary machinery	All necessary Manpower, Tools & Tackles complete etc.	All necessary permissions from Local Authorities for Day Night Works	RA Bill will be prepared on fortnight/Monthly Basis and Payment will be done within 10 days after approval of
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Pale:117;06;24

F QUANTITIES (Piling working Plateform is 3.0 meter to 8 mtr below base Basement is approximate 15 mtr below from Ground Level

REALTY LLP, KANPUR, Project PALOMA THE GRANDEUR THE GRANDEUR WO!

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ı	9986	0569	Rmt	ეოm dia. Pile (300 MT) depth 30 Mtr
	9996		ImЯ	iding, machine mixing and laying designed mix / ready mix M35 grade forced cement concrete (RCC), using 20mm nominal size well-graded approved ty aggregate and sand as per approved design mix as per tS code and with mum cement content 400 Kg per Cum as specified by Structural consultant impm water cement ratio 0.42 including using approved admixtures, . (Concreting less to be carried out for 600mm above the cutoff level which will not be paid, g contaminated concrete) Make of Cement is Utratech
	9986	0041	յաչլ	Omm dis. Pile (300 MT) length 30mtr
				iding and constructing cast In stru bored Piles using rotary drilling rigs. Scope des drilling through all type of strata up to founding level accordance with the strata drawing, including setting out cardinal points, boring in rock, placing and trates including soft rock, dewatering including socketing in rock, placing and trates including soft rock, dewatering including socketing in rock, placing and trates including soft rock, placing and states of steel casing upto non colapsible strata or as instructed wherever required, posed of bored material outside the site at approved location by PM as per their rules guistion, irrespective of lead as directed, lowering the reinforcement cage, welding twing platform for piling work 3.0mt to 8.0 mtr below Basement 03) rking platform for piling work 3.0mt to 8.0 mtr below Basement 03)
		000005		NG WORK illestion at work site with all necessary plants, equipments, itigs, necessary personnel and erecting them etc. complete and on completion of work demobilising site with all the plants, equipments, piling rigs, necessary onnel brought to site including cleaning and reinstating site to original condition onnel brought to site including cleaning and reinstating site to original condition.
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Date:117;06;24

BILLS OF QUANTITIES

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	9986	0SZ	1m7	ng, machine mixing and laying designed mix / ready mix M35 grade reinforced rent concrete (RCC), using 20mm nominal size well-graded approved quality regate and sand as per approved design mix as per IS code and with minimum lengte and sand as per approved design mix as per IS code and with minimum lent content 400 Kg per Cum as specified by Structural consultant maximum water fortion 0.42 including using approved admixtures, vibrating \(\frac{1}{2}\) compacting, curing, folding, cleaning, preparing surfaces, junctions. hacking closely surfaces to be tered etc. complete but excluding the cost of Formwork and reinforcement to the letted etc. complete but excluding the cost of Formwork and reinforcement to the satisfaction of the PM at all depths, heights, lifts and leads. (Concreting of piles is carried out for 600mm above the cutoff level which will not be paid, being taminated cout for 600mm above the cutoff level which will not be paid, being iomminated contrate) Make of Cement is Ultratech
\dashv	1128	00#1	1mg_	oty Borting measured from the working platform level to the cut-off levels of the
				s. Further it shall be filled with approved dry sand, (Working platform level is sidered as -14.75m level) Ading steel reinforcement for RCC, at site
	60£46Z	04	KG	r yield strength deformed bars conforming to 15 1786 - Fe 550 grade Make :
	60£46Z	<i>\$</i> *\$	KG	ng, bending, and placing in position at all levels and binding, detecting, straightening, and placing in position at all levels and binding with approved quality annealed binding wire of 18 gauge for end bearing cast-in-situ piles conforming to annealed binding wire of 18 gauge for end bearing cast-in-situ piles cover blocks an approved concrete cover blocks and grade as of concrete. The rate shall include cost of binding wire, chairs, ters, pins, welding which will not be measured separately for payment. Quantity of the per bar bending schedule as approved by the PM and with authorized overlaps shall be measured and paid for. Further include where required carryout attering, provide required labour and machines / equipments / tools / tackles for alling, shifting, bending, binding, welding etc. all complete to the satisfaction of the stall depths & leads.

Date: 17;06;24

BILLS OF QUANTITIES

ΑΔΙΔΝΥΠΌ	TIVN	LINA	SWITADILWVA
			y out load testing of cast-in-situ reinforced cement concrete bored piles using Pile y bout load testing of cast-in-situ reinforced Camerite borness of the piles using the piles in
			need agency to carry out test by the manufacturer of machine and as approved by clural Consultant. Equipment shall be able to record force and velocity by using
			n and acceleration sensor. Test load shall be 1.5 times designed load. The
	ļ		mer weight shall be minimum 1% of test load as recommended. t report shall include
			⇒ Force velocity curve
	Ì		> Pile capacity
			noùoin∃ Bhat'l ≕
			gninead br∃ ≼
-			evrup teet bed static load teet curve
			> Met and total pile displacement > Pile integrity
			shall be carried out minimum 14 days after installation of pile. Report shall be
<u> </u>			mitted within 7 days of testing.
6	00008€	.soM	Omm dia with load cerrying capacity 300 MT.
			y out high strain dynamic load testing of cast-in-situ reinforced cement concrete
İ			d piles using Pile Driving Analyzer equipment conforming to ASTM D4945 -1989 authorized licenced agency to carry out test by the manufacturer of machine
			as approved by Structural Consultant. Equipment shall be able to record force and
			city by using strain and seceleration sensor. Test load shall be 2.5 x designed
			I. The hammer weight shall be minimum 1% of test load as recommended.
		İ	: report shall include
			> Fale capacity curve > Force velocity curve
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	i		> Stimulated static load test curve
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BILLS OF QUANTITIES

riding, conducting and submitted documented report on RCC bored pile integrity using pile integrity feater on completion of required setting of piles, preparation of equipments all complete. Report should include thical wave form, interpretation of results, cross sectional or material changes if any angth of pile, concrete quantity etc. all complete on forming to ASTMD5882 and to station of the PM. Omm dia with load carrying capacity 300 MT.	.zoN	1200	የነይ	
shall be carried out minimum 14 days after installation of pile. Report shall be mithin 7 days of testing. TM 006 vith load carrying capacity 300 MT.	.żoM	000022	Ē	
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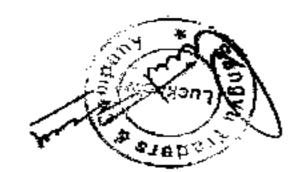
BILLS OF QUANTITIES

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TSS				
TOTAL, OF PILING WORK				Ī
ing and dressing of the R.C.C. piles upto length of 600mm including cleaning incement and removal of dismantled materials upto a distance of 50 meter beyond tilding area etc. for providing pile caps. HOP WE With losd carrying capacity 300 MT. TM 006 viting capacity 300 MT.	.æoM	000₽	Σιε	
FARTICULARS	JIN/I	ялуу "	A.ULNV/10	

PEES : Eleven Crore Seventy Five Lakh Thirty Four Thousand Two Hundred Twenty Nine Rupees & Fifty Paisa Only)

te : Company will provide only water supply free of cost at one single point. Maintenanace and repairing will be in your scope affic supply on chargebale basis and it will be provided at one single point.

ce for Site, Office , Store, Labour Hutmen only in plot area. ning else will be supplied by the company nitty is tentative actual quntity as per site.



ž	SR. 30.	PARTICULARS	UNIT	KATE	BUANTI	AMOUNT	\neg
	5. E.	PILING WORK Mobiligation and Demobilisation of work site with all necessary plants, equipments, pling figs, necessary personnel and erecting them etc. complete and on completion of piling work demobilising site with all the plants, equipments, pling rigs, necessary personnel brought to site including deaning and reinstating site to original condition acceptable to the PM.	ensdwn.	SOURCE	-	20000	
-	<u>6</u>	Providing and constructing cast in situ bored Piles using rotary drilling rigs. Scope includes child through all type of strafa up to founding level accordance with the Structural drawing, including setting out cardinal points, boring in over burden through all stratas including soft rock dewatering including socketing in rock, placing and withdraws of stock casing upto non colapsible strate or as instructed wherever required, disposal of bored material outside the site at approved location by PM as per their rules a regulation, irrespective of lead as directed, lowering the reinforcement cage, welding of new bars of apecified dia with stifch well and/or lap well as per specification. (Working platform for pilling work 3.0mt to 8.0 mtr below Basement D3)					
_		i) 750mm dia. Pile (300 MT) length 30mth	Rmt	3200	9826	33510400	
-	<u>د</u> د	Providing, machine mixing and laying designed mix / ready mix M35 grade reinforced comont concrete (RCC), using 20mm nominal size well-graded approved quality aggregate and sand as por approved design mix as per 15 code and with minimum content content 400 Kg per Cum as specified by Structural consultant maximum water cement ratio 0.42 including using approved admixtures, . (Concreting of piles to be carried out for 600mm above the cutoff level which will not be paid, being contaminated concrete) Make of Cement is Ultratech	Rmt	86614	9886		
		i) 750mm dia. Piæ (300 MT) depth so Mtr					
÷	4	Laying . machine mixing and laying designed mix / ready mix M35 grade reinforced cement concrete (RCC), using 20mm nothinal size wid-graded approved quality aggregate and sand as per approved design mix as per IS code and with minimum cement content 400 Kg per Cum as specified by Structural consultant madrouin water cement content 400 Kg per Cum as specified by Structural consultant madrouin water cement ratio 0.42 including using approved admixtures, vibrating / bompacting, curing, scatiokling, cleaning, propancy surfaces, junctions, hacking closely surfaces to be plastered etc. complete but excluding the cost of Formwork and reinforcement to the entire satisfaction of the PM at all depths, heights, lifts and leads. (Concreting of piles to be carried out for 600mm above the cotoff level which will not be paid, being contaminated concrete) Make of Cement is Ultratech. () 750mm dia. Pile (300 MT) depth 30 Mtr.	Rmt	6000	9058		
 	5.5	Empty Boring measured from the working platform level to the cut-off levels of the pilos. Further it shall be tilled with approved dry sand. (Working platform level is considered as -14.75m level.)	Rmt	3000	1129	3387000	
-	8:1	Providing steel reinforcement for RCC, at site	;				
		High yield strength deformed bars conforming to IS 1786 - Fe 550 grade Make : TATA	9 9	8	297309	27798175	
	1.6 A	Fixing stael reinforcement for RCC, including transporting, de-colling, straightening, cutting, bending, and placing in position at all levels and binding with approved quarity G.I. annealed binding with approved quarity G.I. annealed binding with correct size PVC cover blocks or approved concrete cover blocks of same grade as of concrete. The rate shall include cost of binding wire, chairs, space's, plus, welding which will not be measured separately for payment. Quantity of steel as per part and motificated by the PM and with authorized overlaps only shall be measured and paid for. Further include where required carryout cewatering, provide required labour and machines? equipments / tools / tackles for handling, shifting. bending, binding, welding etc. all complate to the satisfaction of the plandling.	ā	<i>\$</i> 1	297309		

P Net and total pile displacement P P Net and total pile displacement P P Ret and total pile displacement P P Ret and total pile displacement Test shall be carried at minimum 14 days after installation of pile. Report shall be carried at minimum 14 days after installation of pile. Report shall be carried at minimum 14 days after installation of pile. Report of the carry out heat by the mandature of machine and superiored aleamy to carry out heat by the mandature of machine and superiored lateration days are proved by Structural Consultant. Equipment shall be trecord force and value as a sproved by Structural Consultant. Equipment shall be trecord force and value and superior and analysis. P Interest by Structural Consultant in the carry out the structure of machine and superior and include. P Flore velocity ourve P Flore velocity curve P Ret and total pile displacement. P Flat fractor P Ret and total pile displacement. P Flat integrity P Structural documented report on RCC bored pile Integrity for structure of the minimum of required setting of piles, preparation of heads. Providing, conducting and submitted abcumented report on RCC bored pile Integrity test structure democilising of equipments all complete Reports and to heads. P Research of the carrying capacity 300 MT. Proform dis with load carrying capacity 300 MT. P Total mile and the pile integrity att. all complete on forming to ASTMDS882 and to astall the pile integrity and contributed minimum of the pile. P Room distructured and contributed and contributed on the pile.		· · · · · · · · · · · · · · · · · · ·	-			_
Feat shall be carried and total pile displacement Feat shall be carried and minimum 14 days after installation of pile. Report shall be automitted within 7 days of itesting. I 750mm dia with load carrying capacity 300 MT. Carry out high strain dynamic load testing of test-in-stu reinforced cement concrete borned places using Pile Driving Analyzer equipment acidomiting to ASTIM D4945-1989 inhough authorized lisenated agency to carry out test by the manufacturer of machine and as approved by Structural Consultant Equipment shall be able to record force and load. The harmer weight shall be minimum 14% of test load as a recommended. Force velocity outve Pile capacity Shalls fortion Fait report shall include Pile capacity Shalls fortion Fait shall be carried out minimum 7.4 days after installation of pile. Report shall be: Strate integrity Test shall be carried out minimum 7.4 days after installation of piles. Report shall be: Submitted within 7 days of testing. Providing, conducting are all unimited accumented report on RCC bored pile Integrity taster on completion of required setting of equipments all complete. Report should include heads, mobilising and demobilising of equipments all complete on farming to ASTMD5682 and to satisfaction of the PM. Nos statisfaction of the PM. Promition of the PM.	4050000			575000		
Protection of the production of pieces and the production of pieces and the protection of pieces and the production of pieces and the protection of pieces and the protection of pieces and the protection of pieces and production and acceleration sensor Test load shall be 2.5 x designed load. The harmon weight shall be minimum 1% of test load shall be 2.5 x designed load. The harmon weight shall be minimum 1% of test load shall be 2.5 x designed load. The harmon weight shall be minimum 1% of test load shall be 2.5 x designed load. The harmon weight shall be minimum 1% of test load shall be 2.5 x designed load. The harmon weight shall be minimum 1% of test load as recommended. Feat shall be carried out minimum 7.4 days after installation of pile. Report shall be submitted within 7 days of losting. Frowiding, conducting and submitted documented report on RCC bored pile Integrity test using pile it losting. Frowiding, conducting and submitted documented report on RCC bored pile Integrity test using pile it losting of equipments all complete. Report should include graphics wave form interpretation of results, cross sectional or material changes if any in, longth of pile, concrete quantity etc. all complete on forming to ASTMDS682 and to astach a statisfaction of the Pile. Fromm dia with load carrying capacity 300 MT.	ø		_	-	547	_
P. Net and total pile displacement P. Pile integrity Test shall be carried aut minimum 14 days after installation of pile. Report shall be submitted within 7 days of testing. i) 750mm dia with load carrying capacity 300 MT. Carry out high atrain dynamic load testing of cast-in-situ reinforced cement concrete bored piles using Pile Driving Analyzer equipment conforming to ASTM D4945 -1389 inhough authorized licensed agency to carry out hest by the manufacturer of machine and as approved by Structural Consultant. Equipment shall be able to record force and load. The hammer weight shall be minimum 1% of test load shall be 2.5 x designed load. The hammer weight shall be minimum 1% of test load as recommended. Force velocity ourve P. Flore velocity ourve P. Flore velocity ourve P. Flat finance and total pile displacement P. Flat integrity Test shall be carried out minimum. 74 days after installation of pile. Report shall be submitted within 7 days of tosting. Frowiding, conducting and submitted documented report on RGC bored pile Integrity faster on completion of required setting of piles, preparation of heads. mobilising and demobilising of equipments all complete. Report should found the graphics wave from the pile. In Jorgith of pile, concreted quantity etc. all complete on farming to ASTMD5682 and to astastication of the Pile.	aniast			97504W	7606	
	Nos			Nos.	Nos	_
[si	 Net and total pile displacement Pile integrity Test shall be carried out minimum 14 days after installation of pile. Report shall be authrin 7 days of testing. 750mm dia with load carrying appacity 300 MT. 	Carry out high strain dynamic foad testing of cast-in-situ reinforced cement concrete bored piles using Pile Driving Analyzer equipment conforming to ASTM D4945 -1989 through authorized licended agency to carry out test by the manufacturer of machine and as approved by Structural Consultant. Equipment shall be able to record force and velocity by using strain and acceleration sensor. Test load shall be 2.5 x designed load. The hammer weight shall be minimum 1% of test load as recommended.	Test report shall include Y. Force velocity curve Y. Shaft Finction Y. End bearing Y. Stimulated atstic load test curve Y. Net and total pile 0.splacement Y. Pile integrity Test shall be carried out minimum 14 days after installation of pile. Report shall be surved to the stimulated out minimum.	므	Providing, conducting and submitted documented report on RGC bored pile Integrity tast using pile integrity taster on completion of required setting of piles, preparation of heads, mobilising and demobilising of equipments all complete. Report should linguide graphical wave form. Interpretation of results, cross sectional or material changes if any in, longth of pile, concrete quantity etc. all complete on forming to ASTMD5882 and to astisfaction of the PM.	

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the building area etc. for providing pile caps. Spec :complete as approved by PM i) 750mm dia with toad carrying capacity 300 MT.	. Mos.	ýstr)	347	4675750
SUB TOTAL OF PILING WORK				130351335
Add GST @ 18%				2,34,63,238.50
TOTAL OF PILING WORK				15,38,14,563,50
(RUPEES				

Note : Company will provide only water supply free of cost at one single paint. Maintenanace and repaiding will be in your scape Electric supply on chargebale basis and it will be provided at one single point. Space for Sita, Office, Store, Labour Hutman only in plot area. Nothing else will be supplied by the company Quantity is tentative actual quntity as per site.

BILL	BILLS OF QUANTITIES (Piling working Plateform is 3.0 meter to 8 mtr below basement 3 Basement is approximate 15 mtr below from Ground Level) meter	r to 8 m Ground	tr below b	basement 3	
M/S PAL	IMIS PALOMA REALTY LLP , KANPUR, Project : PALOMANIA REPRESENTATION			PILING	PILING WORK	1
	BILLS OF QUANTITIES		Date:17,06,24			•
131.117 CV 45	. Set Elizabete	Aller	2 4 200	t aminated	Total	$\overline{}$
374.45	TANTACCEANO	E.V.C.	4747	The strain of the	710000	$\overline{}$
<u> </u>	PfLING WORK Mobilisation and Demobilisation of work site with all necessary plants, equipments, plants necessary plants, equipments, pling rigs, necessary personnel and erecting them etc. complete and on completion of piling work denotifishing site with all the plants, equipments, piling rigs, necessary personnel brought to site including electring and refusiging site to original condition acceptable to the PM.	Гитрвим	360460		544644	
 	Providing and constructing cast in situ barad Pilea uaing ratery drilling rige. Scape holyges drilling processor with the structural drawing, including settling out conding points, beforg in ever burken through all strates including soft rock, dewetering finaluding socketing in rock, placing and withdrawal of stool casing upto nor calapsible strate or as instructed wherever required, disposal of bared material outside the site at approxed location by PM as por their rules is regulation, irrespective of lead as directed, lowering the reinforcement cage, welding of new bars of specified dia with after weld and/or lap weld as per specification. (Working platform for pilling work 3.0mt to 8.0 mtr below Basement 03)	··· ·····	•			•••
	i) 758mm dia. Pile (390 MT) length 30mm	Rmt	34514	9826	16262400	
<u> </u>	Providing, machine mixing and leying dealgned mlx / ready mlx M35 grade reinforced cement concrete (RCC), using 20mm nominal size well-graded approved quality aggregate and said as par approved design mixims as par 15 does and with minimum demant content A00 Kg par Cum as specified by Structural consultant maximum water rement ratio 0.42 including using approved admixfures, . (Concreting of piles to be carried out for 600mm above the dutoff leyel which will not be paid, being contaminated concrete) Make of Cement is Utratoch.	Ë		8858		\
	I) 750mm dia, Pile (306 MT) dupih 30 Mir	-				

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PILING WORK		INDORY	10653500	1580600
PYLING	Z,	OUTSTITE	0588	297309
	Dato :47;06;24	RATE		340¢
		LINT	F F	. 보 보 전
MS PALDMA, REALTY CLP., KANPUR, Bioject : PALONA THE GRANDEUR	BILLS OF QUANTITIES	PARTICULARS	Laying , machine many and laying designed into fready into MS6 grade reinforced cement concrete (RCC), using 20mm rominal size well-gradua approved quality aggregate and sand as per approved design mix as per RS code and with minimum coment content 400 Kg per Cum as specified by Structural consultant maximum valer connent ratio 0.42 including using approved admixtures, wheating it compacting, cirring, scalfolding, cleating, proparing surfaces, junctions, hacking classly surfaces to be plastered etc. complete but excluding the cost of Formwork and reinforcement to the entire satisfaction of the Pix still depths, heights, lifts and isads. (Concreting of pilas to be carried out for 800mm above the cutoff level which will not be paid, being commanicated concretel Make of Comman is Ultratech.) (stimm die, Pixe (300 MT) depth 30 MT.	Empty Boring measured from the working patform level to the cut-off levels of plics. Further It shall be filled with approved dry sand. (Working platform level is considered as -44,78m level) Providing steel reinforcement for RCC, at site. High yield strangth deformed bars conforming to IS 1786 - Fe 550 grade Make : TALA. Fixing steel reinforcement for RCC, inducing transporting, de-colling, straightaning, cutther, berxling, and plotting in position at all forcis and binding with approved quality of standard binding wize of 18 gauge for end bearing dest-melle plies conforming to IS 2911, Part I with correct size PVC cover blocks or expressed concrete developes of same grade sa of concrete. The rate shall include cost of blinding when, challes, spacers, pins, weking which will not be measured separately for payment, Quantity of stool as por bar bending schedule as approved by the PM snd with authorized overlaps only shall be measured and paid for. Further include where required carryout dewetering, provide required Ishaur and machines / equipments / tools / tacklos for handing, banding, binding, welding etc. sti complete to the estisfaction of the PM at all depths & Rads.
We PA		DR 457	<u></u>	8.1 48.1 A A A

No

IWA FALL	MG PALOMA REALTY LLP , KANPUR , Project : PALOMA THE GRANDEUR			PILING WORK	PILING WORK
	BILLS OF QUANTITIES		Date:17,06;24	*	
DRAFT SR. NO.	PARTICULARS	EWIT	RATE	QUANTITY	AMOUNT
7.1	cement concrete bared pice using Pllic TM D4945 -1989 through authorized curer of machine and as approved by lo record force and valocity by using ill be 1.6 times designed load. The last recommended.				
	ii codorn dia wiin kelo canying capacity scotol.	śgg		ž)	
- ∞i	Carry out high strain dynamic load testing of cast-in-situ reinforced cement concrete bored piles using Pile Driving Analyzer equipment conforming to ASTM 04945 -1989 through authorized licenced agency to carry out test by the manufacturer of machines and as approved by Structural Consultant. Equipment shall be able to record force and velocity by using strain and acceleration sensor. Test foad shall be 2.5 x designed load. The hammer weight shall be minimum 1% of test load as recommended. Ye force velocity curve Ye file capacity Ye file the individual curvo Ye file capacity Ye file the individual pile displacement				

M/s PALC	MIS PALOMA REALTY LLP, KANRIN, PROJECT: PALOMA THE GRANDEUR			PILING	PILING WORK
	BILLS OF GUANTITIES		Date :17;06;24	74	
DRAFT SR, NO.	PARTICULARS	TING	HATE	AJHAYAÖ	TNGOME
	Test shall be carried out minimum 14 days after inslatistion of pile. Report shall be submitted within 7 days of testing. i) 750mm die with load carrying capacity 300 MT.	Nos.	75/1004	-	250000
त्र.	Providing, conducting and submitted documented report on RCC band pile integrity test using pile integrity in complete integrity heat using pile integrity better on completion of required setting of piles, preparation of heads, mobilishe and demobilishing of equipments all complete. Report should include graphical wave form, interpretation of results, ones sectional or material changes if any in length of piles, concrete quantity etc. all complete on forming to ASTMD5882 and to				
	satisfaction of the PM. I) 750mm die wilt load carrying capacity 500 MT.	Noe.	1290	317	384400

M/S PAL	M/S PALOMA REALTY LLP, KANPUR, Project: PALOMA THE GRANDEUR			PILIN	PILING WORK
	BILLS OF QUANTITIES		Date :17;06;24	24	
SR. NO.	PARTICULARS	TW2	RATE	QUANTITY	AMOUNT
다.10	Chiptying and dressing of the R.C.C, piles upto length of 600mm including doesning reinforcement and removal of diamentled materials upto a distance of 50 motor boyond the building area atc. for providing pile caps. Spec template as approved by PM	ool a	5047	710	0000764
	SUB TOTAL OF PILING WORK	S S S S S S S S S S S S S S S S S S S	46194		133842775
	Add GST				
	TOTAL OF PILING WORK				11,35,02,775.00

Note Company will provide only water supply free of cost at one single point. Maintanance and repairing will be in your sonpe. Electric supply or chargebald basis and it will be provided at one single point. Space for Site, Office, Store, Lahour Hutmen only in plot area. Nothing else will be supplied by the company. Oughtly is lentative actual quntity as our site.



MEASUREMENT OF BUILDING AND CIVIL ENGINEERING WORKS

PART 23 PILING

Fourth Revision)

Second Reprint DECEMBER 1996

UDC 69.003.12:624.155

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BUREAU OF INDIAN STANDARDS MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG

MEASUREMENT OF BUILDING AND CIVIL ENGINEERING WORKS

PART 23 PILING

(Fourth Revision)

0. FOREWORD

O.1 This Indian Standard (Part 29) (Fourth Revision) was adopted by the Bureau of Indian Standards on 16 November 1988, after the draft finalized by the Mothod of Measurement of Works of Civil Engineering (Excluding River Valley Projects) Sectional Committee had been approved by the Civil Engineering Division Council.

place in the planning and execution of any civil engineering work from the time of first estimates to the final completion and settlement of payments of project. Methods followed for measure-0.2 Measurement occupies a very important ment are not uniform and considerable differences exist between practices followed by different construction agencies and also between organizations unification of the various systems at technical level has been accepted as very desirable ambiguities and misunderstandings arising out of inadequate understanding of the various various Central and State Government Departments. While it is recognized that each system of measurement has to be specifically related to within a department responsible for the work, a specially as it permits a wider range of operation for civil engineering contractors and eliminates financial administrative and

0.3 Since different trades are not related to

one another, the Sectional Committee during its second revision decided that each trade as given in IS: 1200-1964* shall be issued separately as a different part as it would be helpful to users in using the specific standard. This part covers the method of measurement of piling work applicable to buildings as well as to civil engineering works was published separately in the year 1971 and further revised in 1977. In view of the large number of comments received on this part, the Sectional Committee decided to issue a fourth revision incorporating the changes to keep the latest method as being followed by most of the organizations. The principal modifications are in respect of reinforced cement concrete sheet, timber sheet, and bored piles.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a measurement, shall be rounded off in accordance with IS: 2-1960°. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Method of measurement of building and civil engineering works (first recition).

Rules for rounding off numerical values (resised).

1. SCOPE

1.1 This standard (Part 23) covers the method of measurement of piling.

2. GENERAL RULES

2.1 Clubbing of Items — Items may be clubbed together and that the break-up of the clubbed items is agreed to be on the basis of certailed description of the items stated in this

generally in the sequence of length, width and height or depth of thickness.

2,3 Description of Items — The description of each item shall unless otherwise stated, be held to include where necessary, conveyance and delivery, handling, unloading, storing, fabrication, boisting, all labour for finishing to required shape and size, setting, fitting and fixing in position, straight cutting and waste, return of packings, etc.

- b) Areas shall be worked out to the nearest 0.01 m², and
- c) Cubic contents shall be worked to the nearest 0.01 m⁹.
- 2.5 Work to be Measured Separately The situations, such as, in/under water, liquid mud, marshy land, tidal condition, etc, in which work is to be executed shall be stated.
- 2.5.1 The level of high and low water tides where occurring, shall be stated.
- 2.6 Bills of Quantities The bills of quantities shall fully describe the materials and workmanship, and accurately represent the work to be executed.
- 2.7 A general description of the nature of site shall be stated.
- 2.8. The available information as to the strata through which the piles are to be driven shall be stated or reference showing records of bores be given.
- 2.9 If piles are to be provided from any level offier than the ground level, it shall be stated. If the piing frame is to be lowered or raised, the exact height and nature of working shall be described, separate items shall be provided for driving raker/in groups/isolated/lengthened/trial piles.
- 2.10 Items shall include any extra excavation filling and/or ramming required at the time of construction for the movement of piling frame for executing piling work.
- 2.11 Bringing plant to the site and erecting it and dismantling and taking it back, shall be measured separately as lump sum items.
- Norm Shifting of plant at site of work shall be included in the item of piles.
- 2.12 If load testing is to be done, the provision for such test shall be specified and measured separately.
- 3. METHOD OF MEASUREMENT OF PRECAST REINFORCED CONCRETE PILES
- 3.1 The precast reinforced concrete piles shall be described according to the grade of concrete, section and length, the extra strength of the heads being stated. Any requisite mould shall heads being stated.

- pile to the tip of shoes,
- 3.3 No deduction shall be made for chamfers, tapered points or the volume of reinforcement or holes for lifting piles.
- 3.4 The formwork, links and sleeves shall be included in the description of the item.
- 3.5 The reinforcement shall be measured separately [see IS: 1200 (Part 8)-1975*].
- 3.6 The shoes for each size shall be enumerated separately, stating the approximate weight.
- 3.7 Driving piles to a given level and rodriving of lengthened piles shall be measured in running metrcs, separate measurements being made for piles of 5 m length and less and subsequently for every I m length range. The driving of piles shall be measured from the tip of the shoes up to the level as shown in the drawings. The raker piles shall be measured along the axis of the pile.
- 3.8 The measurement of handling, transportation and pitching of piles shall be enumorated for each occasion.
- 3.9 For stripping the heads of the piles, the length to be stripped shall be stated and measured per linear metre.
- 3.10 Stripping off the head of the piles for bond length shall be enumerated.
- 3.11 When concrete piles are lengthened in position, after they have been lowered, the cement concrete when used for lengthening shall be measured as a separate item. This item shall include the extra labour involved in stripping the exposed end to form connection of new with old work and any excavation, if required.

4. METHOD OF MEASUREMENT OF TIMBER PILES

4.1 Timber piles shall be described and measured in running metre stating the species of timber [see IS:2911 (Part 2)-1980†] and size of the pile. If over 5.0 m in length, the length extra over 5 m shall be measured in stages of one metre.

^{*}Method of measurement of building and civil engineering works: Fart 8 Steel-work and ironwork (third revision).

ung acove or nejow mose snown m arawnys shall be specified.

- 4.1.2 Shaping and shoeing of pile shall be enumerated, stating the approximate weight of the shoe and size of the pile.
- 4.2 Handling, transportation and pitching of piles shall be enumerated for each occasion.
- 4.3 Driving timber piles shall be measured from the tip of the shoe to the ground level as shown in the drawings or as found at site at the time of driving. The method of measurement of driving pile shall be the same as given in 3.7. This item shall also include cutting the top of the pile and dressing it for fixing mild steel ring against splitting during driving.
- 4.4 The supply and fixing of iron rings to the pile head before driving and also the labour involved in cutting off the ringed portion or any portion damaged in driving shall be included in the description of the item.
- 4.5 Joints in piles shall be described and enumerated.

5. METHOD OF MEASUREMENT OF STEEL SHEET PILES (PERMANENT)

- 5.1 Supply only of sheet piles shall be measured by weight [see 1S: 1200 (Part 8)-1975*]. The description of the item shall include the cross-sectional shape, nomenclature of manufacture, specification of material, details of fabrication, such as, lengthening by means of welding; riveting, drilling or burning holes, joining or fixing of structural rolled steel sections, handling and transportation to the site, etc. Piles exceeding 12 m in length shall be described separately stating the lengths in further stages of 3 m.
- 5.2 All struts, anchor boles, anchor plates, turn buckles, waling, etc, shall be measured separately in accordance with IS:1200 (Part 8)-1975*.
- 5.3 When sheet piles are to be painted prior to driving, such painting shall be measured in square metres obtained by multiplying the length by the perimeter of the fabricated sheet pile measured along the profile. Description of the item shall include the method of preparation of surface, number of coats, mode of painting and the like.

embedded portion of the pile in soil and half of the perimeter as defined in IS: 2314-1986*. The length of the embedded portion shall be obtained by measuring from the level of the ground where the tip of the sheet pile first touches before driving, to the ultimate level of the the tip of the piles after driving.

- 5.5 Wherever sheet piles are to be driven under/ in water necessitating the use of special hammers and/or loader frames, such piles shall be described and messured separately.
- 5.6 Driving corner piles and junction piles shall be measured in running metres representing the length of embedment.
- 5.7 Cutting or burning through steel piles shall be measured in running metres as extra over the pile. The disposal of cut length shall be described.
- 5.8 Extraction of piles other than those described in 5.6 shall be measured separately in square metres obtained by multiplying the embedded length in soil by the nominal width of piles from the centre of the clutches. Operations such as lifting, handling and removing from the site shall be described and included in the item.

6. METHOD OF MEASUREMENT OF CAST IN SITU DRIVEN CONCRETE PILES

- 6.1 The description of the pile shall state the nominal diameter, grade of concrete, size of aggregate reinforcing bars, longth of the cago and the pile.
 - 6.2 Forming pile shafts including concrete, and driving casings to a given level shall be measured as one item in running metres.
- 6.3 Reinforcement including bars to be left in the pile cap for embedding shall be measured Separately [see IS: 1200 (Part 8)-1975f].
- 6.4 The length of the cast in situ piles shall be measured from the toe of the pile to the pile cut off level. The description of the pile shall istate the diameter land the type of casing, the grade of concrete, and details of reinforcement of the core.
- 6.5 The provision of pile shoes shall be included in the item.

†Mothod of measurement of building; and civil

^{*}Mathod of measurement of building and civil

[&]quot;Specification for steel sheet pilling sections (first relition).

7. METHOD OF MEASUREMENT OF CAST IN SITU BORED REINFORCED CONCRETE FILES

- 7.1 Empty boring shall be measured separately in running metres and the length shall be from working level to the cut off level of the pile. The type of filling shall be stated.
- 7.2 The boring through boulders and rock strain shall be measured extra over.
- 7.3 Reinforcement in pile including bars to be left in the pile cap for embedment shall be measured separately.
- 7.4 The description of the pile shall state the nominal diameter, grade of concrete, size of aggregate, the reinforcing hars, the length of cage, and the provision of liners, if any.
- 7.5 Permanent mild steel liners, if provided, shall be measured separately in weight in accordance with IS: 1200 (Part 8)-1975* from working level to foundation level.
- 7.6 In case of under-reamed or bulb based piles, the bulbs shall be measured and enumerated. The description of piles shall state the diameter of the bulb.

8. METHOD OF MEASUREMENT OF REINFORCED CEMENT CONCRETE SHEET PILES

- shall be measured in cubic metres arrived at by multiplying the cross-sectional area of the pile by the length of the pile as cast from the head of the pile to the pile to the tip of the shoes.
- 8.2 The description of the item shall include the cross-sectional shape, grade of concrete, size of aggregate and extra strength of the head. Any requisite mould shall be included in the description as also necessary strapping, bolts and lifting holes.
- 8.3 Lifting, handling, pitching engaging through adjacent piles and driving shall be measured separately for each type in square metres obtained by multiplying the length of the embedded bortion of the pile and half the parameter of the section. The length of the embeded portion is shall be obtained by measuring from the level shall be obtained by measuring from the level of the ground where the tip of the pile first

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*Method of measurement of building and , civil

- unverting weren necessaring are use or special hammers and/or loader frames, such piles shall be described by measuring separately.
- **8.5** Driving corner piles and junction piles shall be measured separately.
- 8.6 Cutting piles shall be measured in running metres as extra over. The disposal of cut length shall be described.
- 8.7 The extraction of piles other than due to defective driving shall be measured separately in square metres as mentioned in 8.3.

9. METHOD OF MEASUREMENT OF TIMBER SHEET PILES

- 9.1 The timber sheet piles shall be described and measured in running metres stating the species of timber and cross-section.
- 9.2 Handling, transportation and pitching of piles shall be enumerated for each occasion.
- 9.3 Driving timber sheet piles shall be measured in square metres obtained by multiplying the length of the embedded portion of the pile in soil and half the perimeter of the construction.
- 9.4 Whenever sheet piles are to be driven under/in water necessitating the use of special hammers and/or loader frames, such piles shall be described and measured separately.
- 9.5 The corner and junction piles shall be measured separately.
- 9.6 Cuting pile shall be measured in running metres as extra over. The disposal of cut length shall be described.
- 9.7 The extraction of piles other than due to defective driving shall be measured separately as in 9.3.

10. METHOD OF MEASUREMENT OF BORED PRECAST CONCRETE PILES

- 10.1 The precast reinforced concrete bored piles shall be described according to grade of concrete, and size of aggregate section and length, the extra strength of the heads being stated. Any requisite mould shalf be included in the description as also the necessary strapping, bolts and litting holes.
- 16.2 The cement concrete shall be measured separately in cubic metres arrived at by multi-nivian the reservoismed area of the ride by the

included in the description of the item.

10.4 The reinforcement shall be measured separately [26 [S:1206 (Part 8)-1975*].

10.5 Placing pile shaft shall be measured in running metres from founding level to working level of the pile.

10.6 Empty boring shall be measured separately in running metres and the length shall be from

10.7 The measurement of handling, transportation and pitching of piles shall be enumerated for each occasion.

10.8 For strapping the heads of the pile, the length to be strapped shall be stated and measured in running metres.

10.9 Stripping off the heads of the pile for bond length shall be enumerated.

16.10 Grouting shall be measured in cubic metres describing fully the type of method.

^{*}Method of measurement of building and civil angineering works: Part 8 Steelwork and ironwork (third religion).

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M/s PALOMA REALTY LLP.

60/52, Nayaganj, Kanpur

Kind Attn: Sh. Copal Verma

Subject Submission of Quotation Documents for Proposed Highrise Commercial Building at Laxman Bagh Kanpur. Congrete Pile work,

Dear Sir

This is with reference to your mail regarding the above-mentioned project. We have pleasure in submitting our offer for the same as per attached BOQ. We appreciate the opportunity to submit this proposal and look forward to performing this work for you. We hope you shall find our proposal as competitive Please contact us when we can be of further and favour us with your work order. service to you.

Thanking you and assuring you of our best services in all times.

Yours faithfully,

For BHOOMI GEOTECH PVT, LTD.

Kaushal Kumar

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Director

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BIL mtr	BILLS OF QUANTITIES { Piling working Plateform is 3.0 meter to 8 mtr below basement 3 Basement is approximate 15 mtr below from	g Plata proxin	eform nate 1	is 3.0 mt 5 mtr be	ster to 8 low from
!	Ground Level	آوا آوا			
MIS PALOMY GRANDEUR	MIS PALOMA REALTY LLP, KANPUR, Project: PALOMA THE GRANDEUR	市		PILIN	PILING WORK
	BILLS OF QUANTITIES	1		Date :17:06:24	06:24
DRAFT					
SR. NO.	PARTICULARS	UNIL	RATE	QUANTITY	AMOUNT
1.0	PILING WORK				
	and Demobilisation of work site ary plants, equipments, piling rigs, sonnel and erecting them etc. on completion of piling work te with all the plants, equipments, sessary personnel brought to site ing and reinstating site to original table to the PM.	Lumpsum	SUUMA	1 Jab	5,88,000.00
				-	
رم ج	Providing and constructing cast in situ bored Pites using rotary drilling rigs. Scope includes drilling through all type of strata up to founding level accordance with the Structural drawing, including setting out cardinal points, boring in over burden through all stratas including soft rock, cewatering including socketing in rock, placing and withdrawal of steel casing upto non colapsible strata or as instructed wherever required, disposal of bored material outside the site at approved location by PM as per thoir rules 8 regulation, irrespective of lead as directed, lowering the reinforcement cage, welding of new bars of specified dia with stitch weld and/or lap weld as per specified dia with stitch weld and/or lap weld as per specified dia with stitch weld and/or lap weld as per specified dia with stitch weld and/or lap weld as per specified dia with stitch weld and/or lap weld as per specified dia with stitch weld and/or lap weld as per specified dia with stitch weld and/or lap weld as per specified dia with stitch weld and/or lap weld as per specified dia with stitch weld and/or lap well as per specified dia with stitch well and/or lap well as per specified dia with stitch well and or lap well as per specified dia with stitch well and or lap well as per specified dia with stitch well as second materials.				
	i) 750mm dia. Pile (300 MT) length 30mtr	Rmt	1260	9856	1,18,27,200.00
1,3	Providing, machine mixing designed mix / ready mix M35 grade reinforced cement concrete (RCC), using 20mm nominal size well-graded approved quality approach and send as now		,		

2,61,18,400.00

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approved quality aggregate and sand as per approved design mix as per IS code and with minimum cement content 400 Kg per Cum as specified by Structural consultant maximum water cement ratio 0.42 including using approved admixtures, . (Concreting of piles to be carried out for 600mm above the cutoff level which will not be paid, being contaminated concrete) Make of Cement is Ultratech

- -	39,42,400,00	13,54,800.00		1,84,73,158,00	35,47.708.00
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mix M35 grade reinforced cement concrete mix M35 grade reinforced cement concrete approved quality aggragate and sand as per approved dusign mix as per IS code and with minimum cement content 400 Kg per Cum as specified by Structural consultant maximum water committees, vibrating ? compacting, curing, scaffolding, cleaning, preparing surfaces, junctions, Facking closely surfaces to be plastered etc. complete but excluding the cost of Formwork and reinforcement to the entire satisfaction of the PM at all depths, heights, lifts and leads. (Concreting of piles to be carried out for 600mm above the cutoff level which will not be paid, being contaminated concrete) Make of Cement is	i) 750mm dia. Pile (300 MT) depth 30 Mtr	Empty Borlng measured from the working platform level to the cut-off levels of the piles. Further it shall be filled with approved dry sand. (Working platform level is considered as -14.75m level).	Providing steel reinforcement for HCC, at site	High yield strength deformed bars conforming to IS 1786 - Fe 550 grade Make: TATA	Fixing steel reinforcement for RCC, including transporting, de-coiling, straightening, cutting, bending, and placing in position at all levels and binding with approved quality G.I. annealed binding with approved quality G.I. annealed binding wire of 18 gauge for end bearing cast-insitu piles conforming to IS 2911, Part I with correct size PVC cover blocks or approved concrete cover blocks or approved concrete cover blocks or approved concrete cover blocks or approved concrete cover blocks or approved concrete cover blocks or approved concrete cover blocks or approved as of concrete. The rate shall include cost of binding wire, chairs, spacers, pins, welding which will not be measured separately for payment. Quantity of steel as per bar bending schedule as approved by the PM and be measured and paid for. Further include where required carryout dewatering, provide required labour and machines / tools / tackles for handling, shiffing. bending, binding, welding etc. all complete to the satisfaction of the PM at all dopths & leads. Carry out load testing of cast-in-situ reinforced coment concrete bored piles using the D4945 - 1989 through authorized licenced agency to carry out test by the manufacturer of machine and as approved by Structural Consultant. Equipment shall be able to record force and velocity by using strain and acceleration sensor. Test load shall be
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Pile capacity Shalf Friction Shalf Friction Shalf Friction Shalf Friction Shalf Friction Shalf Friction Parand dotal pile displacement Pile integrity Learned out minimum 14 days after not pile. Report shall be submitted within testing. I high strain dynamic load testing of u reinforced cement concrete bored piles Driving Analyzer equipment conforming D4945-1989 through authorized licenced o carry out test by the manufacturer of and as approved by Structural Consultant. It shall be able to record force and y using strain and acceleration sensor. I shall be able to record force and y using strain and acceleration sensor. I shall be able to record force and y using strain and acceleration sensor. I shall be able to record force and y using strain and acceleration sensor. I shall be able to record force and y using strain and acceleration Shaft Friction Force velocity curve Pile capacity Shaft Friction Force velocity curve Pile capacity Shaft Friction Force velocity curve Pile capacity Shaft Friction Force velocity curve Pile integrity Can desting of desplacement Pile integrity and uninimum 14 days after of pile. Report shall be submitted documented RCC bored pile integrity test using pile star on completion of required setting of apparation of heads, mobilising and no folic. Report shall be complete. Report no of equipments all complete. Report and dressing of the R.C.C. piles upto on furning to ASTMD5882 and to on of the PM. and dressing of the R.C.C. piles upto dia with load carrying capacity 300 MT. and dressing of the Building area etc. no glie caps. Spec complete as approved	000009		150000	9907	
r rocce vercent curve. Shaft Enction Shaft Encion S	NOS.		Nos.	Nos.	
6;- 6;-	y y y static load test curve static load test curve if pile displacement minimum 14 days shall be submitted v rying capacity 300 M	Carry out high strain dy cast-in-situ reinforced cem using Pile Driving Analyze to ASTM D4945-1989 thru agency to carry out test machine and as approved Equipment shall be able velocity by using strain a Test load shall be 2.5 hammer weight shall be n as recommended.	➤ Force velocity curve ➤ Pile capacity ➤ Shaft Friction ➤ End bearing ➤ Stimulated static load test curve ➤ Net and total pile displacement ➤ Pile integrity Test shall be carried out minimum 14 days after installation of pile. Report shall be submitted within 7 days of testing. i) 750mm dia with load carrying capacity 300 MT.	nd submile integrietion of retion of reads, ents all vave for mal or mis concrete to ASTI arrying of	Chipping and dressing of the R.C.C. piles up length of 600mm including cleaning reinforceme and removal of dismantled materials upto distance of 50 meter beyond the building area e for providing pile caps. Spec complete as approved by PM

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8,52,48,706.00	-	TOTAL OF PILING WORK
1,30,04,640.00		Add GST @18%
ULTUNNICATIONS,		מוויא יייייייייייייייייייייייייייייייייי

(AUPEES Eight Crore Fifty Two Lakh Forty Eight Thousand Six Hundred Seven

Note: Company will provide only water supply free of cost at one single point. Electric supply on chargebale basis and it will be provided at one single Maintenanace and repairing will be in your scope <u>8</u>

Space for Site, Office, Store, Labour Hutmen only in plot area. Nothing else will be supplied by the company Quantity is tentative actual quantity as per site.

Payment terms:

- 5% of total contract value to be paid as advance for mobilization of team & machinery.
- 95% of total contact value shall be paid to us on completion of pile work on prorate basis.
- Advance against undated cheque for procurement of TMT steel & RMC will be provided to us by developer.
- 4. GST will be charged extra over quoted rates.
- We have not considered any PBC or retention amount in above rates. ις (2)

Thanks & regards

Hor BHOOMI GEOTECH PVT, LTD,

Kaushal Kumar Director

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	<i>n</i> ≈	Separation of the man. 7.55 minimals with tweet samping capacity 300 MT.	NGS.	453	317	1,42850

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Space for sile, Office, Score, Laborit Hutman one in plot area.

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FOR BAJIYA PILING COMPANY

Proprieto:

Date: 11-06-2024

<u>c</u>

M/s PALOMA REALTY LLP. 60/52, Nayaganj, Kanpur

Kind Attn: Sh. Gopal Verma

Subject: Submission of Quotation Documents for Proposed Highrise Commercial Building at Laxman Bagh Kanpur. Concrete Pile work.

Dear Sir

This is with reference to your mail regarding the above-mentioned project. We have pleasure in submitting our offer for the same as per attached BOQ.

performing this work for you. We hope you shall find our proposal as competitive We appreciate the opportunity to submit this proposal and look forward to and favour us with your work order. Please contact us when we can be of further service to you.

Thanking you and assuring you of our best services in all times.

Yours faithfully,

For BHOOMI GEOTECH PVT. LTD.

Katishaf Kumar

Director

M/s PAL PALOM	M/s PALOMA REALTY LLP , KANPUR , Project ; PALOMA THE GRANDEUR	vantexare		PILIN	PILING WORK
DRAFT	BILLS OF QUANTITIES	NTITIES			<u>-</u> :
SR. NO.	PARITCHILARS	UNIT		QUANTITY	AMOUNT
1.0	PILING WORK				
-	Mobilisation and Demobilisation of work site with all necessary plants, equipments, piling rigs, necessary personnel and erecting them etc. complete and on completion of piling work demobilising site with all the plants, equipments, piling rigs, necessary personnel brought to site including cleaning and reinstating site to original condition acceptable to the PM.	Lumpsum	5,000,000.00	do <u>i</u> t	5,00,000.00
<u>-</u>	Previding and constructing cast in situ bored Piles using rotary drilling rigs. Scope includes drilling through all type of strata up to founding level accordance with the Structural drawing, including setting out cardinal points, boring in over burden through all stratas including soft rock, dewatering including soft rock, dewatering including soft rock, dewatering including soft rock, placing and withdrawal of steel casing upto non colapsible strata or as instructed wherever required, disposal of bored material outside the site at approved location by local authority as per their rules & regulation, irrespective of lead as directed, lowering the reinforcement cage, welding of new bars of specified dia with stitch weld and/or lap weld as per specification. (Working platform for piling work 3.0mt below Basement 03) NOTE: THE CUT OFF LEVEL OF PILES IS (-17730mm w.r.t FFL) IN GENERAL AREA & (-18606 w.r.t FFL) IN LIFT AREA.	Pmt	1,200.00	9826	1,18.27,200.00
4.	Providing, machine mixing and laying designed mix / ready mlx M35 grade reinforced cement concrete (BCC), using 20mm nominal size well-graded approved quality aggregate and sand as per approved design mix as per IS code and with minimum cement content 400 Kg per Cum as specified by Structural consultant maximum water cement ratio 0.42 including using approved admixtures, vibrating / compacting, curing, scaffolding, cleaning, preparing surfaces, junctions, hacking closely surfaces to be plastered etc. complete but excluding the cost of Formwork and reinforcement to the entire				· .

i) 750mm dia. Pile (300 MT) Empty Boring measured from the working	Rmt he working	- :	3,000.00	9856	2,95,68,000,00
platform level to the cut-off levels of the piles. Further it shall be filled with approved dry sand (Working platform level is considered as - 14.75m level)	vols of the piles. pproved dry sand. Rmt isidered as -		1,200.00	1129	13,54,800.00
Providing and fixing steel reinforcement for BCC, including transporting, de-coiling, straightening, cutting, bending, and placing in position at all levels and binding wire of 18 gauge quality G.I. anneated binding wire of 18 gauge for end bearing cast-in-situ piles conforming to IS 2911, Part I with correct size PVC cover blocks or approved concrete cover blocks of same grade as of concrete. The rate shall include cost of binding wire, chairs, spaceirs, pins, which will not be measured separately for payment. Quanity of steel as per bar bending schedule as approved by the PM and with	reinforcement for parting, de-coiling, de-coiling, ding with approved ng wire of 18 gauge of size PVC cover ete cover blocks of ete. The rate shall ire, chairs, spacers, is used separately for as per bar bending the DM and with	 · <u>·</u>	-		
authorized overlaps only shall be measured and paid for. Further include where required carryout dewatering, provide required labour and machines? equipments / toots / tackles for handling, shifting, bending, binding, etc. all complete to the satisfaction of the PM at all depths & leads. High yield strength deformed bars conforming to IS 1786 - Fe 500 grade Make: TATA/SAIL/JiNDAL	shall be measured ude where required labour. s / toots / tackles for g, binding, etc. all on of the PM at all med bars e 500 grade Make: KG		75.00	297309	2,22,98,175.00
d testing of case ete bored piles uipment confort yout test by the day as approved as approved as approved yelocity by u	itu reinforced Pile Driving to ASTM ed licenced nufacturer of y Structural ole to record strain and	:			
acceleration sensor. Test load shall be designed load. The hammer weight shall be minimum 1% of test load as recommended. Test report shall include. Profice velocity curve. Prite capacity Shaft Friction	d shall be sight shall be imended.	<u>·</u>	•		
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00'000'05'1	-	1,50,000.00	Nos.	() 750mm dia with load carrying capacity 300 MT.	
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		•		conforming to ASTM D4945 -1989 through	-
				gn spaint dynamic rodd reinforced cement cond odd Delding Appliant	<u>-</u>

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NOTE: Company will provide only water supply free of cost at one single point.
Electric supply on chargebale basis and it will be provided at one single point.
Space for Site, Office; Store, Labour Hutmen only in plot area.
Nothing else will be supplied by the company Quantity is tentative actual quritity as per site.

Payment terms:

- 5% of total contract value to be paid as advance for mobilization of team & machinery. ႕
- 95% of total contact value shall be paid to us on completion of pile work on prorate basis. N
- Advance against undated cheque for procurement of TMT steel & RMC will be provided to us by developer. сó
- 4. GST will be charged extra over quoted rates.
- We have not considered any PBG or retention amount in above rates. Ę,

Thanks & regards

For BHOOMI GEOTECH PVT, LTD.

B.

Kaushal Kumar Director

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BILLS OF QUANTITIES

LOMA REALTY LLP, KANPUR, Project: PALOMA THE GRANDEUR

SHILLS OF QUANTITIES

	wold as per specification. (Working platform for piling work 3.0mt below Baser NOTE : THE CUT OFF LEVEL OF PILES IS (-17700; mm w.r.) FFL) IN C
681 Jm9 9856 (77408) pevorage production of the solution of th	NOTE: THE CUT OFF LEVEL OF PILES IS (-17700mm w.r.) FFL) IN CARA & (-19800 w.r.t FFL) IN LIFT AREA. i) 750mm dis. Pile (300 MT) Providing, machine mixing and laying designed mix / ready mix M: reinforced cement congrete (RCC), using 20mm nominal size well-graded reinforced cement congrete (RCC), using 20mm nominal size well-graded (quality aggregate and sand as per approved design mix as per IS code (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement content 400 Kg per Cum as specified by Structural (minimum cement cement content 400 Kg per Cum as specified by Structural (minimum cement

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ALOMA REALTY LLP, KANPUR, Project: PALOMA THE GRANDEUR

BILLS OF QUANTITIES

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				tools / tackles for handling, shifting, bending, binding, etc. all complete to the	
				required carryout dewatering, provide required labour and machines / equipments /	
				with authorized overlaps only shall be measured and paid for. Further include where	
				payment. Quantity of steel as per bar bending schedule as approved by the PM and	
				binding wire, chairs, spacers, pins, which will not be measured soparately for	
	!			concrete cover blocks of same grade as of concrete. The rate shall include cost of	
				piles conforming to 18 2911, Part I with correct size PVC cover blocks or approved	
	.			approved quality G.L. samested binding wire of 18 gauge for end bearing cast-in-situ	
	.		1	Aliangement general lies is notified in position at all levels and binding with	_
	i		•	Providing and fixing steel relationsent for RCC, including transporting, de-coiling,	Ĺ
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				piles. Further it shall be filled with approved dry sand, (Worlding platform level is	
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PILING WORK

ALOMA REALTY LLP, KANPUR, Project: PALOMA THE GRANDEUR

BILLS OF QUANTITIES

38040	416	9071	.eoM	test using pile integrity tester on completion of required setting of piles, preparation of heads, mobilising and demobilising of equipments all complete. Report should include graphical wave form, interpretation of results, cross sectional or material changes if any in, length of pile, concrete quantity etc. all complete on forming to ASTMD5882 and to satisfaction of the PM. I) Your dis with load carrying capacity 300 MT,	
72900	L	0000SZ	.eoN	> Net and total pile displacement > Pile integrity Test shall be cerried out minimum 14 days after installation of pile. Report shall be cubinitted within 7 days of testing. i) 750mm die with load carrying capacity 300 MT. Providing, conducting and submitted documented report on RCC bored pile integrity.	ŧ
				bored piles using Pile Driving Analyzer equipment conforming to ASTM D4945 -1989 through suthorized licenced agency to carry out test by the manufacturer of machine and as approved by Structural Consultant. Equipment shall be able to record force and velocity by using strain and acceleration sensor. Test load shall be 2.5 x designed velocity by using strain and acceleration sensor. Test load strain and acceleration 1% of test load as recommended. Test report shall include Pile capacity Pile capacity Shaff Fraction Shaff Fraction Shaff Fraction Shaff Fraction Shaff Fraction Shaff Fraction	
725000	6	. 000 0 SZ	,aoM	submitted within 7 days of testing. i) 750mm dia with load certylng capacity 300 MT. Catry out high strain dynamic load testing of cast-in-situ reinforced cement concrete	<u></u> <u></u>
тому	<u>VANTITY</u>	3.UVH	LINA	Test shall be carried out minimum 14 days after installation of pile. Report shall be	<u>O8</u>

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ALOMA REALTY LLP, KANPUR, Project : PALOMA THE GRANDEUR

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Note: Company will provide only water supply free of cost at one single point.

Electric supply on chargebale basis and it will be provided at one single point.

Space for Site, Office, Store, Labour Hutmen only in plot area.

Mothing else will be supplied by the company

Quantity is tentative actual quotity as per site.



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