

Sr No .....

Date .....



TENDER DOCUMENT



REJUVENATION OF GANDHI PARK-PHASE II

(ATAL MISSION FOR REJUVENATION AND URBAN  
TRANSFORMATION)

Cost of the Tender Document Rs. 5700.00

Cost of the work Rs. 149.82 Lacs

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MUNICIPAL CORPORATION, DEHRADUN

Near Doon Hospital, New road, Dehradun

District –Dehradun, Uttarakhand-248001

NIT NO.-

## PARTICULARS OF THE TENDERS

1.	Particular of the Work	Rejuvenation of Gandhi Park (Phase II) as urban green space at Dehradun under AMRUT
2.	Period of construction	6 month
3.	Cost of Tender Form	Rs 5700
4.	Earnest Money	3 lac
5.	Date & time for getting tender document	Till 17.04.17
6.	Date & time of Submission of tender	17.04.17 untill 2.00pm
7.	Date of Opening of Technical Bid	18.04.17
8.	Date of Opening of Financial Bid	To be Informed later
9.	Place of Opening of Tender	Municipal Commissioner Office, Nagar Nigam, Dehradun
10.	Period of Validity of Tender	3 months
11.	Name and Address of the firm to whom tender document id issued	..... .....

Executive Engineer  
Nagar Nigam, Dehra Dun.

## PRE QUALIFICATION, TECHNICAL BID AND FINANCIAL BID REQUIREMENTS

### REJUVENATION OF GANDHI PARK (PHASE II) AS URBAN GREEN SPACE DEHRADUN UNDER AMRUT

The tenderer/bidder should give a detailed technical proposal and financial proposal for the above detailed work complete in all respect. The financial/commercial bid shall be opened only after approval of technical bid from the Nagar Nigam Dehradun.

All the bids shall be examined and evaluated first technically and as per the past experience of similar nature work, financial capability and others relevant factors related to similar type of project i.e. **beautification work, construction of park, horticulture projects, landscaping projects, recreational/group housing projects etc. Details to be provided with the technical bid:-**

Tenders/RFP are invited from the reputed, capable, efficient and experience firms/ organization/ PSU's/ contractors registered in Central/State Govt departments/ undertakings to construct the above work in a limited time of six months with **six months of maintenance.**

#### **Pre requisite/ Pre qualification for the tender**

1. Earnest Money of **Rs. 3 lac** in the form of NSC/ FDR/ Bank Guarantee for 12 months extendable as and when required in the name of A.O, Nagar Nigam, Dehradun.
2. If form is down loaded from the web site, cost of tender form of **Rs. 5700.00** in the form of bank draft in the name of SFO, Nagar Nigam, Dehradun should be deposited with the tender form/bid.
3. Income tax registration with PAN card copy.
4. Sales/trade tax registration number
5. Labour department registration or any other statutory registration required.
6. Affidavit with the detail that the firm/ bidder have not been black listed from any government, semi government, organization due to default.
7. After the satisfaction of above conditions, further technical bid shall be considered.

## TECHNICAL BID

Tenders are invited from the reputed, experience, well equipped construction Firm/Company/Individuals/Partnership firms/legal identity, registered in any Central Government/State Government/PSUs of State/Centre for the **Rejuvenation of Gandhi Park (Phase II) as urban green space under AMRUT with 6 months maintenance**

The tenderer/bidder should give a detailed technical proposal to carry out the above job as per the technical bid. The financial/commercial bid shall be opened after the approval of technical bid from the Nagar Nigam, Dehradun.

All the bids shall be examined and evaluated first technically, as per the past construction experience and others relevant factors related to **beautification/construction of parks**. Details to be provided with the technical bid:

### TECHNICAL BID REQUIREMENTS

- 1- Completion of the construction of similar types of construction projects, already completed by tenderer or ongoing projects.
  - 1.1 Experience of **2 or more** similar types of projects which should be completed or ongoing . Performance Certificate copies and order copies issued by Competent Authority should also be submitted with the bid copy.
  - 1.2 Completion of similar nature of constructional project of Rs. **50 lacs**. or more during last financial year **OR** completion of project costing Rs **1.5. Cr.**(equal to project cost) during last 3 years
  - 1.3 Nett worth of the tenderer should be ½ of the project cost, in support of this CA certified/bank certificate, copy should be attached
  - 1.4 Preference will be given to those firms who are having ISO 9001-2000 certification or similar certificate.

- 1.5 Copy of letters showing letters of satisfactions and any other relevant information.
- 1.6 Income tax return copy of last 5 years.
- 2- Detail of the staff (skilled or unskilled) with their technical qualifications and construction machineries.
  - 2.1 Detail of staff and their qualifications to be deputed for the project, at least one **Junior engineer, Horticultural specialist, The consent letter of the team members is required.**
  - 2.2 **Detail of machinery in possession/owner/lease i.e batch mixing plant, mixture machine, different types of , testing equipment etc.**
  - 2.3 **No. of permanent staff for construction i.e supervisor, mistry/meson, gardner, labour/beldar, bar binder etc.**
  - 2.4 Place and location of existing testing lab and equipments with present address.
- 3- Copy of registration with the Trade Tax, Income Tax, Service Tax and the labour department
  - 3.1 Copy of Registration Certificate with the class A/B/C category of registration in PWD/CPWD/MES/Central and/ for State Government Undertaking/ULB's

## ENVELOPS TO BE USED FOR “PRE QUALIFICATION”, “TECHNICAL-BID” AND “FINANCIAL/ COMMERCIAL-BID” AND MODE OF SUBMISSION

Separate four sealed envelopes should be used one for Pre requisite/Prequalification for the tender, **Envelop-A** for **EMD & Document fee**, one for **“Technical Bid” Envelop-B** and one for **“Financial/ Commercial Bid”**, **Envelop-C**, and all the three envelopes A, B and C are to be kept in a bigger envelope-D, which is to be sealed at the time of submission. Open envelopes are liable to be canceled. Envelops must be addressed to Executive Engineer, Nagar Nigam, Dehradun.

Tender can be submitted to the Nagar Nigam , Dehradun or Public Works Department office before the stipulated date and time. Tender can be submitted by Registered Post or Speed Post or Courier Services or by hand to the Tender box/ PublicWorks Department, Nagar Nigam, Dehradun before the stipulated date and time. After the stipulated date and time (**17 April.2017**) up to 2PM ,the tender will not be considered. Delay due to postal services will be the liability of the bidder/ tenderer.

Only the rates or “Financial Bid” of such supplier/ bidder shall be opened or considered, those who will qualify in the “Technical Bid”.

## **TIME FRAME FOR**

### **REJUVENATION OF GANDHI PARK (PHASE II) AS URBAN GREEN SPACE UNDER AMRUT**

1. After getting the intimation from Nagar Nigam to the lowest bidder, required stamp paper and other formalities for signing contract are to be completed in all respect within two days.
2. The total time given for the contract work which includes all the activities related to tendered work should be completed. In ordinary condition it is not extendable, but due to some unforeseen reasons and natural calamity the extension may be granted after receiving a request letter. The above period includes the rainy and all seasons.
3. After completion of work, the officers/ engineers of the Nagar Nigam/ or the prescribed committee will check all the constructed installed and fixed items executed by you and after that completion certificate may be issued.
4. For time over run, per day penalty may be imposed, which may be Rs. 500.00 per day after expiry of stipulated time for execution of work. Time over run may be exempted for the genuine reason, which are to be forwarded by engineers/ or prescribed authorized committee and that may/ may not be considered/ accepted by Nagar Ayukt, Nagar Nigam, Dehradun.

## **PAYMENT SCHEDULE**

1. After receiving the required material for the tendered work, 80% payment may be released of the total material cost, after inspection recommendation of the technical report of the engineers/ committee prescribed for that work or as per The Procurement Policy 2008 provisions).
2. After proper completion of particular work a detailed bill shall be submitted by the bidder, accordingly payment shall be released after adjusting the amount paid in above para 1.
3. Details given in Schedule B are as per the requirement, but the payment shall be made as per the actual work done/ executed.
4. 90% payment shall be released after completion of work and 10% shall be released after one years of completion of guarantee period, after deducting the penalty due to delay in execution of work, fault in work if any, duly intimated time to time by both the parties.

5. If bank guaranty/ FDR/ CDR/ NSC pledged in the name of A.O, Nagar Nigam , Dehradun of 10% of the amount, as described in above para 4, is submitted in the office, the above 10% may be released after getting the proper report from the engineers/ EnC/ committee meant for this purpose.
6. Total number of running bill should not be more than three in number i.e. one bill amount shall not be less than the 35% of the tendered amount.

## **TIME FRAME FOR THE MAINTENANCE FOR FIRST YEARS**

1. There must be **6 months comprehensive maintenance warranty** from the date of completion of work/ handing over to Nagar Nigam, Dehradun.
- 2- For the first year during the warranty period, after written report from Nagar Nigam about manufacturing defect to your authorized person, for every day delay in correcting it will cost Rs. 200.00 per day. Under the definition of warranty the manufacturing defect/faults liability shall be there with all the items in the executed work. Including all parts of construction.
- 3- During the first year all machines, materials and labours are to be arranged by the tenderer.
- 4- Due to some accident if there is some damage to the structure made, the repair work shall be executed by the tender immediately. Payment shall be made as per the rate decided by the Uttarakhand Procurement Policy 2008.

## **OTHER CONDITIONS**

- 1- Nagar Nigam, Dehradun has a right to reduce or increase the requirement of the above work, numbers of items and even can cancel the tender at any time without assigning and reason.
- 2- Nagar Nigam, Dehradun has a right to change, substitute, and delete any item, their specification, and quantity in the interest of the development works.
- 3- The proposed construction shall be as per the detailed given by Nagar Nigam, Dehradun and if any details are further required then Uttaranchal PWD/ CPWD/ relevant codes/ DSR will be referred.
- 4- Regular test or required tests are to be performed, from PWD Labs, Dehradun/ Regional I I T Roorkee/ any Govt Approved Lab.
- 5- Before execution of work the tenderer should examine the approach road and location of the site and the difficulties which are to be encountered during the construction. For material supply if any no entry permission is to to be sought from district administration, Nagar Nigam administration shall write a letter for the same.



- 6- During the execution the bidder shall be responsible for safety and insurance of their staff, contracted workers, daily wages if engaged. Any labour law, insurance, safety related laws, all applicable law of land are to be followed by the bidder. For any violation the bidder shall be held responsible in all respect.
- 7- The decision of Nagar Ayukt, Nagar Nigam, Dehradun shall be final and binding on all. For any type of dispute the arbitrator shall be Mayor, Nagar Nigam, Dehradun.
- 8- An affidavit should be submitted with the tender, related to authorized signatory/ lead member, for single window interface between Nagar Nigam and bidder.
- 9- All electrical items are to be selected by authorized agency/person, registered in electrical safety inspectorate, uttarakhand and after completion certificate is to be obtained after the inspection by electrical safety inspectorates uttarakhand.

From : .....  
.....  
.....  
.....

To,  
Executive Engineer,  
Nagar Nigam, Dehradun

**SUB CONSTRUCTION OF CHILDREN'S PARK AS URBAN GREEN SPACE AT GANDHI PARK DEHRADUN UNDER AMRUT**

Sir,

We hereby submit our offer for the above mentioned tender, we have examined the nature, details and specifications of all and have carefully noted and instructions and conditions mentioned in the tender document. The complete tender document is being submitted in original issued by Nagar Nigam, Dehradun to us/ down loaded from web site. Tender document are enclosed in sealed envelopes "A", "B" and "C", as instructed in the tender document. I hereby say with the oath that I shall follow all the terms and conditions in the above tender document, provisions of Uttarakhand Procurement Rules 2008.

Place:-

Date:-

( Signature of the tenderer)

Name: .....  
Address: .....  
.....  
.....  
City:- .....  
Cell No .....  
e-mail .....

# INSTRUCTIONS TO THE TENDERER AND TERMS AND CONDITIONS

## (A)- EARNEST MONEY AND VALIDITY OF TENDER

1. Each tender shall be accompanied by the requisite Earnest money (Rs 3 Lacs) in the form of FDR or NSC/BG in favour of A.O., Nagar Nigam, Dehradun.
2. Without requisite earnest money tender is liable to be disqualified.
3. Earnest money shall be retained up to expiry of the contract period.

## (B)- CASTING AND OPENING OF TENDER

1. The tender should be neatly written, preferably typed. Every page of the tender document should be signed with seal. The rated must be quoted in words also.
2. Nagar Nigam, Dehradun reserves the right to reject any or all the tenders or accept any tender, after analyzing pre qualification, technical bid and financial bid, in total or in parts of work may be decided among various tenderer, without assigning and reason. Nagar Nigam has a right to change the date of opening of technical and/or financial bid at any time.
3. All information must be in English and figures must in MKS system.  
The tender must give  
The Name,  
Detailed address of office with pin code  
Phone numbers land and Mobile Numbers  
E- mail, Web-site
4. The representative should bring the authorization letter from the tenderer having representative's attested signature (This details is compulsory to ensure the maintenance within the stipulated time)
5. The details of the Lead member/ head of the institution responsible for execution.
6. Any approach/ undue pressure by any firm shall render the tender liable to be rejected.
7. Any tender if deviates from terms and conditions and technical specifications specified in the tender document shall be liable to be rejected.
8. On acceptance of the tender, the tenderer will be required to execute an agreement which will be treated as contract for the tendered work on non judicial stamp paper of required value, as per GO's provisions.

9. For above a non judicial stamp paper of Rs. 100.00 should be attached with the tender document.
10. If tenderer fails to sign the agreement within the stipulated specified period of 3 days from date of confirmation of the lowest bidder, its Earnest Money shall be forfeited by the Nagar Nigam, Dehradun.
11. The tendering firm/ company should be registered under the relevant statues by the relevant competent authority. The firm must attach attested copies of the Registration Certificate and partnership deed/ Memorandum of Association as the case may be.
12. The tender price will be inclusive of all taxes and duties, i.e. central, state and local taxes and should be quoted in schedule B format.
13. Specifications are given in Schedule B.
14. Conditional tender will not be accepted and shall be summarily rejected.

## FINANCIAL STATUS

1. Solvency Certificate/ bank guarantee duly signed and stamped by the scheduled bank/ registered bank authorized by GoI/RBI.
2. Income tax returns certificates of last 3 years.
3. Liquid fund availability along with certificate signed by C.A., Balance sheet for last one year.

## CREDEBILITY

The bidder must give an affidavit that he has not been or is not black listed from any Government or Semi Government Department. If at any stage it is found that the credentials given by the bidder are not correct or manipulative or false, it may lead to disqualification and black listing.

The Nagar Ayukt, Nagar Nigam, Dehradun/ Executive Engineer, NND may ask to the tenderer/ tenderers to show the samples of items proposed to be used for the execution of the work.

# **SCHEDULE – “B”/TENDER FORM**

## **CONSTRUCTION OF CHILDREN’S PARK AS URBAN GREEN SPACE AT GANDHI PARK DEHRADUN UNDER AMRUT**

(Detailed DPR/approved estimate should be attached here, with all quantity, rate, and amount)

I/We hereby agree to execute all the tendered work at .....  
% below/ ..... % above rate (in words also)

Signature of the bidder/Authorized Signatory .....

Name .....

Address .....

Mob. No. ....

# Abstract of Work

[ Park Entry Gate ( Block-A ) ]

### Abstract of Work

Client : Nagar Nigam Dehradun

Name of work : REJUVENATION OF GANDHI PARK AS URBAN GREEN SPACE AT DEHRADUN, UTTARAKHAND

Name of ARCHITECTS Agency : Space I Design

Ref. No. :

#### Abstract of Work

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-A	Park Entry Gate	Total No. of Block x Buildup Area / Length => ( 1 x 5.04 = 5.04 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
--N/A--	1	Building Works								
--N/A--	2	CIVIL WORKS								
--N/A--	3	Geometrical Improvement								
--N/A--	4	Surface levelling of Work Location								
--N/A--	6	Dismantling & Demolishing of Existing Structures								
DSR-2016 Item no. 15.2.2 Page-253	7	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge (Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	Cum	1.66	615.15	1,021.15	-	-	1,021.15	
DSR-2016 Item no. 15.7.4 Page-253	8	Demolishing brick work (In cement mortar) manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	Cum	6.73	842.75	5,671.71	-	-	5,671.71	
DSR-2016 Item no. 15.60 Page-258	9	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	8.39	120.55	1,011.41	-	-	1,011.41	
--N/A--	10	Anti-Termite Treatment								
Rate Analysis Item no. NS-01	11	Diluting and injecting chemical emulsion for PRE- CONSTRUCTIONAL anti-termite treatment with Chlorpyriphos / Lindane emulsifiable concentrate of 20% using chemical emulsion @ 7.5 litres / sqm	Sqm	3.24	-	0.00	145.13	470.22	470.22	
--N/A--	12	Foundation / Sub Structures (Upto Plinth Level)								

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks	
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)			
	Block-A	Park Entry Gate	Total No. of Block x Buildup Area / Length => ( 1 x 5.04 = 5.04 Sqm )								
A	B	C	D	E	F	G	H	I	J	K	
--N/A--	13	<b>Earth Work , Backfilling etc.</b>									
DSR-2016 Item no. 2.6.1 Page-76	14	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. (All kinds of soil)	Cum	3.89	125.95	489.95	-	-	489.95		
DSR-2016 Item no. 2.25 Page-79	17	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	1.48	125.75	186.11	-	-	186.11		
--N/A--	20	<b>Concrete Work (P.C.C., R.C.C. etc.)</b>									
--N/A--	21	<b>Plain Cement Concrete (P.C.C.)</b>									
DSR-2016 Item no. 4.1.8 Page-88	22	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : P.C.C. 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size)	Cum	0.49	4478.15	2,194.29	-	-	2,194.29		
--N/A--	23	<b>Reinforcement Cement Concrete (R.C.C.)</b>									
--N/A--	25	<b>Shuttering work</b>									
--N/A--	28	<b>Reinforcement work</b>									
--N/A--	30	<b>Masonry Work (Bricks Masonary, Stone Masonary)</b>									
DSR-2016 Item no. 6.1.2 Page-111	31	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	2.41	4751.65	11,451.48	-	-	11,451.48		
--N/A--	32	<b>Water Proofing / Damp Proof Course</b>									
--N/A--	33	<b>Damp Proof Course (D.P.C.)</b>									



Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-A	Park Entry Gate	Total No. of Block x Buildup Area / Length => ( 1 x 5.04 = 5.04 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 4.11 Page-90	34	Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Sqm	1.44	320.25	461.16	-	-	461.16	
DSR-2016 Item no. 4.12 Page-90	35	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification	Per 50 Kg Cement Bag	0.46	47.95	22.06	-	-	22.06	
DSR-2016 Item no. 4.13 Page-90	36	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushesand finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	1.44	91.90	132.34	-	-	132.34	
--N/A--	37	<b>Super Structures</b>								
--N/A--	38	<b>Concrete Work (P.C.C., R.C.C. etc.)</b>								
--N/A--	39	<b>Reinforcement Cement Concrete (R.C.C.)</b>								
--N/A--	42	<b>Shuttering work</b>								
--N/A--	46	<b>Reinforcement work</b>								
--N/A--	48	<b>Masonry Work (Bricks Masonary, Stone Masonary)</b>								
DSR-2016 Item no. 6.4.2 Page-111	49	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	4.32	5582.85	24,117.91	-	-	24,117.91	
--N/A--	51	<b>Door Window frames Works (Wood, Steel Work etc.)</b>								
DSR-2016 Item no. 9.53 Page-152	52	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	Each	18.00	118.60	2,134.80	-	-	2,134.80	
--N/A--	54	<b>Roofing</b>								

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-A	Park Entry Gate	Total No. of Block x Buildup Area / Length => ( 1 x 5.04 = 5.04 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 10.2 Page-182	55	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	945.00	67.60	63,882.00	-	-	63,882.00	
--N/A--	58	Water Proofing								
--N/A--	62	FINISHING WORK								
--N/A--	63	Plastering								
DSR-2016 Item no. 13.2.2 Page-227	65	15 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Sqm	28.80	200.25	5,767.20	-	-	5,767.20	
--N/A--	67	Painting								
DSR-2016 Item no. 13.45.1 Page-231	70	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	Sqm	28.80	150.65	4,338.72	-	-	4,338.72	
--N/A--	73	Door Window Works (Wood, Steel Work etc.)								
--N/A--	83	False Ceiling Work								
--N/A--	85	FLOORING WORK								
--N/A--	86	Stone Work (Kota, Marble & Granite etc.)								
DSR-2016 Item no. 7.28.1 Page-123	92	Providing and fixing sloping chajja of stone 40 mm thick and upto 80 cm wide beyond the wall as measured along the slope in cement mortar 1:4 (1 cement : 4 coarse sand) with 12 mm diameter anchoring steel bar, 45 cm long, fixed in each stone and supported on and including with bricks cove in cement mortar 1:4 (1 cement : 4 coarse sand), including pointing in cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : Red sand stone	Sqm	1.96	1387.70	2,719.89	-	-	2,719.89	
--N/A--	93	Tile works								
--N/A--	96	Other Flooring								
--N/A--	98	Other Misc Works								

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-A Park Entry Gate		Total No. of Block x Buildup Area / Length => ( 1 x 5.04 = 5.04 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
				-						
					Sub Total	1,25,602.17		470.22	1,26,072.39	
			After applying Cost index 1.0588			1,32,987.58		470.22	1,33,457.80	

**Note :** In DSR 2016 amount proposed Cost Index is 105.88 (Ref: CPWD 2016 (DPAR 2012 Base 102) = 105.88 (Note = 100 x 108 / 102 = 105.88 ).

Abstract of Work

[ Toilet Block ( Block-B ) ]

### Abstract of Work

Client : Nagar Nigam Dehradun

Name of work : REJUVENATION OF GANDHI PARK AS URBAN GREEN SPACE AT DEHRADUN, UTTARAKHAND

Name of ARCHITECTS Agency : Space I Design

Ref. No. :

#### Abstract of Work

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-B Toilet Block		Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
--N/A--	1	Building Works								
--N/A--	2	CIVIL WORKS								
--N/A--	3	Geometrical Improvement								
--N/A--	4	Surface levelling of Work Location								
DSR-2016 Item no. 2.32 Page-80	5	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	86.84	3.65	316.97	-	-	316.97	
--N/A--	6	Dismantling & Demolishing of Existing Structures								
--N/A--	10	Anti-Termite Treatment								
Rate Analysis Item no. NS-01	11	Diluting and injecting chemical emulsion for PRE- CONSTRUCTIONAL anti-termite treatment with Chlorpyriphos / Lindane emulsifiable concentrate of 20% using chemical emulsion @ 7.5 litres / sqm	Sqm	31.85	-	0.00	145.13	4622.39	4,622.39	
--N/A--	12	Foundation / Sub Structures (Upto Plinth Level)								
--N/A--	13	Earth Work , Backfilling etc.								
DSR-2016 Item no. 2.6.1 Page-76	14	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. (All kinds of soil)	Cum	22.67	125.95	2,855.29	-	-	2,855.29	
DSR-2016 Item no. 2.7.1 Page-76	15	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. (Ordinary rock)	Cum	4.00	221.05	884.20	-	-	884.20	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-B	Toilet Block	Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 2.25 Page-79	17	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	10.13	125.75	1,273.85	-	-	1,273.85	
DSR-2016 Item no. 2.27 Page-80	18	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	6.37	917.75	5,846.07	-	-	5,846.07	
--N/A--	20	Concrete Work (P.C.C., R.C.C. etc.)								
--N/A--	21	Plain Cement Concrete (P.C.C.)								
DSR-2016 Item no. 4.1.8 Page-88	22	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : P.C.C. 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size)	Cum	6.99	4478.15	31,302.27	-	-	31,302.27	
--N/A--	23	Reinforcement Cement Concrete (R.C.C.)								
DSR-2016 Item no. 5.1.2 Page-97	24	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	1.38	6215.35	8,577.18	-	-	8,577.18	
--N/A--	25	Shuttering work								
DSR-2016 Item no. 4.3.1 Page-89	26	Centering and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases for columns	Sqm	12.03	193.95	2,333.22	-	-	2,333.22	
--N/A--	28	Reinforcement work								
DSR-2016 Item no. 5.22.6 Page-100	29	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars	Kg	173.33	56.60	9,810.48	-	-	9,810.48	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks	
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)			
	Block-B	Toilet Block	Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )								
A	B	C	D	E	F	G	H	I	J	K	
--N/A--	30	Masonry Work (Bricks Masonary, Stone Masonary)									
DSR-2016 Item no. 6.1.2 Page-111	31	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	13.83	4751.65	65,715.32	-	-	65,715.32		
--N/A--	32	Water Proofing / Damp Proof Course									
--N/A--	33	Damp Proof Course (D.P.C.)									
--N/A--	37	Super Structures									
--N/A--	38	Concrete Work (P.C.C., R.C.C. etc.)									
--N/A--	39	Reinforcement Cement Concrete (R.C.C.)									
DSR-2016 Item no. 5.2.2 Page-97	40	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	3.16	7145.80	22,580.73	-	-	22,580.73		
DSR-2016 Item no. 5.3 Page-97	41	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	Cum	5.61	7390.80	41,462.39		-	41,462.39		
--N/A--	42	Shuttering work									
DSR-2016 Item no. 5.9.3 Page-98	43	Centering and shuttering including strutting, propping etc. and removal of form work for : Suspended floors, roofs, landings, balconies and access platform	Sqm	47.97	422.30	20,257.73	-	-	20,257.73		

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-B	Toilet Block	Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 5.9.5 Page-98	44	Centering and shuttering including strutting, propping etc. and removal of form work for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	7.07	342.90	2,424.30	-	-	2,424.30	
DSR-2016 Item no. 5.9.6 Page-98	45	Centering and shuttering including strutting, propping etc. and removal of form work for : Columns, piers, abutments, pillars, posts and struts	Sqm	27.54	467.85	12,884.59	-	-	12,884.59	
--N/A--	46	<b>Reinforcement work</b>								
DSR-2016 Item no. 5.22A.6 Page-101	47	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars	Kg	1061.95	56.60	60,106.37	-	-	60,106.37	
--N/A--	48	<b>Masonry Work (Bricks Masonary, Stone Masonary)</b>								
DSR-2016 Item no. 6.4.2 Page-111	49	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	13.67	5582.85	76,317.56	-	-	76,317.56	
DSR-2016 Item no. 6.13.2 Page-112	50	Half brick masonry in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	33.86	684.20	23,167.01	-	-	23,167.01	
--N/A--	51	<b>Door Window frames Works (Wood, Steel Work etc.)</b>								
DSR-2016 Item no. 9.53 Page-152	52	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	Each	46.00	118.60	5,455.60	-	-	5,455.60	



Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-B	Toilet Block	Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 10.15.1 Page-184	53	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	130.88	124.05	16,235.66	-	-	16,235.66	
--N/A--	54	<b>Roofing</b>								
DSR-2016 Item no. 10.17 Page-184	56	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	Each	1.00	112.15	112.15	-	-	112.15	
--N/A--	58	<b>Water Proofing</b>								

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-B	Toilet Block	Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 22.6 Page-382	59	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/ sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. For the purpose of measurement the entire treated surface will	Sqm	47.97	395.00	18,948.15	-	-	18,948.15	
DSR-2016 Item no. 12.21.1 Page-210	60	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase	Rmt	28.08	153.00	4,296.24	-	-	4,296.24	
DSR-2016 Item no. 12.22 Page-210	61	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete	Each	4.00	187.60	750.40	-	-	750.40	
--N/A--	62	<b>FINISHING WORK</b>								
--N/A--	63	<b>Plastering</b>								

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-B	Toilet Block	Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 13.1.2 Page-227	64	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Sqm	22.98	172.95	3,974.39	-	-	3,974.39	
DSR-2016 Item no. 13.2.2 Page-227	65	15 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Sqm	96.92	200.25	19,408.23	-	-	19,408.23	
Rate Analysis Item no. NS-02	66	Providing and applying 8mm thick cement plaster to ceiling in cement mortar 1:4 (1cement : 4 fine sand) finished smooth in line & level including hacking of RCC surfaces, making groove at the junction of ceiling & wall and curing, all lead and lifts complete to the satisfaction of the Engineer.	Sqm	38.91	-	0.00	207.66	8080.05	8,080.05	
--N/A--	67	<b>Painting</b>								
DSR-2016 Item no. 13.48.1 Page-231	69	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm	Sqm	61.89	98.95	6,124.02	-	-	6,124.02	
DSR-2016 Item no. 13.45.1 Page-231	70	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	Sqm	96.92	150.65	14,601.00	-	-	14,601.00	
--N/A--	73	<b>Door Window Works (Wood, Steel Work etc.)</b>								
DSR-2016 Item no. 9.21.2 Page-148	74	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	5.04	1559.75	7,861.14	-	-	7,861.14	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-B	Toilet Block	Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 9.21.3 Page-148	75	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) Non decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	9.98	1501.90	14,988.96	-	-	14,988.96	
Rate Analysis Item no. NS-03	76	Providing and fixing of Window & ventilator with Aluminium frames, Glass 4 mm thick and Wiremesh of approved brand and approved size and finishes fixing glass panes with necessary glazing clips complete as per drawing and with the satisfaction of project in-charge.	Sqm	1.91	-	0.00	3067.58	5859.08	5,859.08	
DSR-2016 Item no. 9.100.2 Page-159	77	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 100 mm	Each	16.00	45.10	721.60	-	-	721.60	
DSR-2016 Item no. 9.101.1 Page-159	78	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Single rubber stopper	Each	3.00	27.55	82.65	-	-	82.65	
DSR-2016 Item no. 9.83 Page-156	80	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	Each	2.00	414.45	828.90	-	-	828.90	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-B	Toilet Block	Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 9.113 Page-161	81	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer-in-charge.	No.	2.00	473.65	947.30	-	-	947.30	
--N/A--	83	False Ceiling Work								
--N/A--	85	FLOORING WORK								
--N/A--	86	Stone Work (Kota, Marble & Granite etc.)								
DSR-2016 Item no. 8.2.2.1 Page-128	87	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. : Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble : Area of slab upto 0.50 sqm	Sqm	2.64	3351.95	8,849.15	-	-	8,849.15	
DSR-2016 Item no. 8.3.2 Page-128	88	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Granite work	Rmt	4.96	245.70	1,218.67	-	-	1,218.67	
DSR-2016 Item no. 8.5 Page-128	89	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	2.00	427.95	855.90	-	-	855.90	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-B	Toilet Block	Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 8.10.2 Page-129	91	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade	Sqm	4.00	2831.95	11,327.80	-	-	11,327.80	
--N/A--	93	<b>Tile works</b>								
DSR-2016 Item no. 11.37 Page-196	94	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc, complete.	Sqm	53.57	688.35	36,874.91	-	-	36,874.91	
DSR-2016 Item no. 11.36 Page-196	95	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	111.11	744.80	82,754.73	-	-	82,754.73	
--N/A--	96	<b>Other Flooring</b>								
--N/A--	98	<b>Other Misc Works</b>								
				-						

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-B Toilet Block		Total No. of Block x Buildup Area / Length => ( 1 x 38.91035 = 38.91 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
					Sub Total	6,45,333.06		18,561.52	6,63,894.58	
					After applying Cost index 1.0588	6,83,278.65		18,561.52	7,01,840.17	

**Note :** In DSR 2016 amount proposed Cost Index is 105.88 (Ref: CPWD 2016 (DPAR 2012 Base 102) = 105.88 (Note =  $100 \times 108 / 102 = 105.88$  ).

Abstract of Work

[ Ticket Booth cum Café ( Block-  
C ) ]



### Abstract of Work

Client : Nagar Nigam Dehradun

Name of work : REJUVENATION OF GANDHI PARK AS URBAN GREEN SPACE AT DEHRADUN, UTTARAKHAND

Name of ARCHITECTS Agency : Space I Design

Ref. No. :

#### Abstract of Work

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-C Ticket Booth cum Café		Total No. of Block x Buildup Area / Length => ( 1 x 22.89945 = 22.90 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
--N/A--	1	Building Works								
--N/A--	2	CIVIL WORKS								
--N/A--	3	Geometrical Improvement								
--N/A--	4	Surface levelling of Work Location								
DSR-2016 Item no. 2.32 Page-80	5	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	62.33	3.65	227.50	-	-	227.50	
--N/A--	6	Dismantling & Demolishing of Existing Structures								
--N/A--	10	Anti-Termite Treatment								
Rate Analysis Item no. NS-01	11	Diluting and injecting chemical emulsion for PRE- CONSTRUCTIONAL anti-termite treatment with Chlorpyriphos / Lindane emulsifiable concentrate of 20% using chemical emulsion @ 7.5 litres / sqm	Sqm	22.90	-	0.00	145.13	3323.48	3,323.48	
--N/A--	12	Foundation / Sub Structures (Upto Plinth Level)								
--N/A--	13	Earth Work , Backfilling etc.								
DSR-2016 Item no. 2.6.1 Page-76	14	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. (All kinds of soil)	Cum	14.74	125.95	1,856.50	-	-	1,856.50	
DSR-2016 Item no. 2.7.1 Page-76	15	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. (Ordinary rock)	Cum	2.60	221.05	574.73	-	-	574.73	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-C	Ticket Booth cum Café			Total No. of Block x Buildup Area / Length => ( 1 x 22.89945 = 22.90 Sqm )					
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 2.25 Page-79	17	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	6.59	125.75	828.69	-	-	828.69	
DSR-2016 Item no. 2.27 Page-80	18	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	4.58	917.75	4,203.30	-	-	4,203.30	
--N/A--	20	Concrete Work (P.C.C., R.C.C. etc.)								
--N/A--	21	Plain Cement Concrete (P.C.C.)								
DSR-2016 Item no. 4.1.8 Page-88	22	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : P.C.C. 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size)	Cum	4.94	4478.15	22,122.06	-	-	22,122.06	
--N/A--	23	Reinforcement Cement Concrete (R.C.C.)								
DSR-2016 Item no. 5.1.2 Page-97	24	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	0.89	6215.35	5,531.66	-	-	5,531.66	
--N/A--	25	Shuttering work								
DSR-2016 Item no. 4.3.1 Page-89	26	Centering and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases for columns	Sqm	7.70	193.95	1,493.42	-	-	1,493.42	
--N/A--	28	Reinforcement work								
DSR-2016 Item no. 5.22.6 Page-100	29	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars	Kg	111.78	56.60	6,326.75	-	-	6,326.75	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks	
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)			
	Block-C	Ticket Booth cum Café			Total No. of Block x Buildup Area / Length => ( 1 x 22.89945 = 22.90 Sqm )						
A	B	C	D	E	F	G	H	I	J	K	
--N/A--	30	Masonry Work (Bricks Masonary, Stone Masonary)									
DSR-2016 Item no. 6.1.2 Page-111	31	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	8.87	4751.65	42,147.14	-	-	42,147.14		
--N/A--	32	Water Proofing / Damp Proof Course									
--N/A--	33	Damp Proof Course (D.P.C.)									
--N/A--	37	Super Structures									
--N/A--	38	Concrete Work (P.C.C., R.C.C. etc.)									
--N/A--	39	Reinforcement Cement Concrete (R.C.C.)									
DSR-2016 Item no. 5.3 Page-97	41	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	Cum	1.02	7390.80	7,538.62		-	7,538.62		
--N/A--	42	Shuttering work									
DSR-2016 Item no. 5.9.5 Page-98	44	Centering and shuttering including strutting, propping etc. and removal of form work for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	8.91	342.90	3,055.24	-	-	3,055.24		
--N/A--	46	Reinforcement work									
DSR-2016 Item no. 5.22A.6 Page-101	47	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars	Kg	128.11	56.60	7,251.03	-	-	7,251.03		
--N/A--	48	Masonry Work (Bricks Masonary, Stone Masonary)									

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-C Ticket Booth cum Café		Total No. of Block x Buildup Area / Length => ( 1 x 22.89945 = 22.90 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 6.4.2 Page-111	49	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	9.01	5582.85	50,301.48	-	-	50,301.48	
DSR-2016 Item no. 6.13.2 Page-112	50	Half brick masonry in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	7.03	684.20	4,809.93	-	-	4,809.93	
--N/A--	51	<b>Door Window frames Works (Wood, Steel Work etc.)</b>								
DSR-2016 Item no. 9.53 Page-152	52	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	Each	34.00	118.60	4,032.40	-	-	4,032.40	
DSR-2016 Item no. 10.15.1 Page-184	53	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	97.06	124.05	12,040.29	-	-	12,040.29	
--N/A--	54	<b>Roofing</b>								
DSR-2016 Item no. 10.2 Page-182	55	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	1289.04	67.60	87,139.10	-	-	87,139.10	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-C	Ticket Booth cum Café			Total No. of Block x Buildup Area / Length => ( 1 x 22.89945 = 22.90 Sqm )					
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 10.17 Page-184	56	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	Each	3.00	112.15	336.45	-	-	336.45	
DSR-2016 Item no. 12.1.2 Page-208	57	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 0.80 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	Sqm	41.55	818.95	34,027.37	-	-	34,027.37	
--N/A--	58	<b>Water Proofing</b>								
--N/A--	62	<b>FINISHING WORK</b>								
--N/A--	63	<b>Plastering</b>								
DSR-2016 Item no. 13.1.2 Page-227	64	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Sqm	46.38	172.95	8,021.42	-	-	8,021.42	
DSR-2016 Item no. 13.2.2 Page-227	65	15 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Sqm	49.37	200.25	9,886.34	-	-	9,886.34	
--N/A--	67	<b>Painting</b>								
DSR-2016 Item no. 13.26 Page-229	68	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	95.75	118.70	11,365.53	-	-	11,365.53	
DSR-2016 Item no. 13.48.1 Page-231	69	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm	Sqm	46.38	98.95	4,589.30	-	-	4,589.30	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-C	Ticket Booth cum Café			Total No. of Block x Buildup Area / Length => ( 1 x 22.89945 = 22.90 Sqm )					
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 13.45.1 Page-231	70	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	Sqm	49.37	150.65	7,437.59	-	-	7,437.59	
--N/A--	73	<b>Door Window Works (Wood, Steel Work etc.)</b>								
DSR-2016 Item no. 9.21.2 Page-148	74	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	1.89	1559.75	2,947.93	-	-	2,947.93	
DSR-2016 Item no. 9.21.3 Page-148	75	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) Non decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	3.15	1501.90	4,730.99	-	-	4,730.99	
Rate Analysis Item no. NS-03	76	Providing and fixing of Window & ventilator with Aluminium frames, Glass 4 mm thick and Wiremesh of approved brand and approved size and finishes fixing glass panes with necessary glazing clips complete as per drawing and with the satisfaction of project in-charge.	Sqm	2.25	-	0.00	3067.58	6902.06	6,902.06	
DSR-2016 Item no. 9.100.2 Page-159	77	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 100 mm	Each	10.00	45.10	451.00	-	-	451.00	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-C	Ticket Booth cum Café			Total No. of Block x Buildup Area / Length => ( 1 x 22.89945 = 22.90 Sqm )					
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 9.101.1 Page-159	78	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Single rubber stopper	Each	3.00	27.55	82.65	-	-	82.65	
DSR-2016 Item no. 9.102 Page-159	79	Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.	Each	2.00	49.50	99.00	-	-	99.00	
DSR-2016 Item no. 9.83 Page-156	80	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	Each	2.00	414.45	828.90	-	-	828.90	
DSR-2016 Item no. 9.113 Page-161	81	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineerin-charge.	No.	3.00	473.65	1,420.95	-	-	1,420.95	
DSR-2016 Item no. 10.6.1 Page-182	82	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 -part 1 and M.S. top cover of required thickness for rolling shutters.	Sqm	3.51	2316.10	8,129.51	-	-	8,129.51	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks	
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)			
	Block-C	Ticket Booth cum Café			Total No. of Block x Buildup Area / Length => ( 1 x 22.89945 = 22.90 Sqm )						
A	B	C	D	E	F	G	H	I	J	K	
--N/A--	83	<b>False Ceiling Work</b>									
DSR-2016 Item no. 12.52.3 Page-218	84	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections : 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	Sqm	26.82	993.15	26,636.28	-	-	26,636.28		
--N/A--	85	<b>FLOORING WORK</b>									
--N/A--	86	<b>Stone Work (Kota, Marble &amp; Granite etc.)</b>									
DSR-2016 Item no. 11.26.1 Page-195	90	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	Sqm	16.39	1,158.10	18,981.26	-	-	18,981.26		
--N/A--	93	<b>Tile works</b>									



Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-C Ticket Booth cum Café		Total No. of Block x Buildup Area / Length => ( 1 x 22.89945 = 22.90 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 11.37 Page-196	94	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc, complete.	Sqm	1.44	688.35	991.22	-	-	991.22	
DSR-2016 Item no. 11.36 Page-196	95	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	8.05	744.80	5,995.64	-	-	5,995.64	
--N/A--	96	Other Flooring								
--N/A--	98	Other Misc Works								
				-						
					Sub Total	4,08,439.16		10,225.53	4,18,664.69	
					After applying Cost index 1.0588	4,32,455.38		10,225.53	4,42,680.91	

Note : In DSR 2016 amount proposed Cost Index is 105.88 (Ref: CPWD 2016 (DPAR 2012 Base 102) = 105.88 (Note = 100 x 108 / 102 = 105.88 ).

Abstract of Work  
[ Store ( Block-D ) ]

### Abstract of Work

Client : Nagar Nigam Dehradun

Name of work : REJUVENATION OF GANDHI PARK AS URBAN GREEN SPACE AT DEHRADUN, UTTARAKHAND

Name of ARCHITECTS Agency : Space I Design

Ref. No. :

#### Abstract of Work

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-D	Store	Total No. of Block x Buildup Area / Length => ( 1 x 18.87 = 18.87 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
--N/A--	1	Building Works								
--N/A--	2	CIVIL WORKS								
--N/A--	3	Geometrical Improvement								
--N/A--	4	Surface levelling of Work Location								
DSR-2016 Item no. 2.32 Page-80	5	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	55.74	3.65	203.45	-	-	203.45	
--N/A--	6	Dismantling & Demolishing of Existing Structures								
--N/A--	10	Anti-Termite Treatment								
Rate Analysis Item no. NS-01	11	Diluting and injecting chemical emulsion for PRE- CONSTRUCTIONAL anti-termite treatment with Chlorpyriphos / Lindane emulsifiable concentrate of 20% using chemical emulsion @ 7.5 litres / sqm	Sqm	18.87	-	0.00	145.13	2738.60	2,738.60	
--N/A--	12	Foundation / Sub Structures (Upto Plinth Level)								
--N/A--	13	Earth Work , Backfilling etc.								
DSR-2016 Item no. 2.6.1 Page-76	14	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. (All kinds of soil)	Cum	11.59	125.95	1,459.76	-	-	1,459.76	
DSR-2016 Item no. 2.7.1 Page-76	15	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. (Ordinary rock)	Cum	2.04	221.05	450.94	-	-	450.94	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-D	Store	Total No. of Block x Buildup Area / Length => ( 1 x 18.87 = 18.87 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 2.25 Page-79	17	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	5.18	125.75	651.39	-	-	651.39	
DSR-2016 Item no. 2.27 Page-80	18	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	4.72	917.75	4,331.78	-	-	4,331.78	
--N/A--	20	Concrete Work (P.C.C., R.C.C. etc.)								
--N/A--	21	Plain Cement Concrete (P.C.C.)								
DSR-2016 Item no. 4.1.8 Page-88	22	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : P.C.C. 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size)	Cum	4.16	4478.15	18,629.10	-	-	18,629.10	
--N/A--	23	Reinforcement Cement Concrete (R.C.C.)								
DSR-2016 Item no. 5.1.2 Page-97	24	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	0.70	6215.35	4,350.75	-	-	4,350.75	
--N/A--	25	Shuttering work								
DSR-2016 Item no. 4.3.1 Page-89	26	Centering and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases for columns	Sqm	6.06	193.95	1,175.34	-	-	1,175.34	
--N/A--	28	Reinforcement work								
DSR-2016 Item no. 5.22.6 Page-100	29	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars	Kg	87.92	56.60	4,976.27	-	-	4,976.27	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks	
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)			
	Block-D	Store	Total No. of Block x Buildup Area / Length => ( 1 x 18.87 = 18.87 Sqm )								
A	B	C	D	E	F	G	H	I	J	K	
--N/A--	30	Masonry Work (Bricks Masonary, Stone Masonary)									
DSR-2016 Item no. 6.1.2 Page-111	31	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	6.98	4751.65	33,166.52	-	-	33,166.52		
--N/A--	32	Water Proofing / Damp Proof Course									
--N/A--	33	Damp Proof Course (D.P.C.)									
--N/A--	37	Super Structures									
--N/A--	38	Concrete Work (P.C.C., R.C.C. etc.)									
--N/A--	39	Reinforcement Cement Concrete (R.C.C.)									
DSR-2016 Item no. 5.3 Page-97	41	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	Cum	0.93	7390.80	6,873.44		-	6,873.44		
--N/A--	42	Shuttering work									
DSR-2016 Item no. 5.9.5 Page-98	44	Centering and shuttering including strutting, propping etc. and removal of form work for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	8.13	342.90	2,787.78	-	-	2,787.78		
--N/A--	46	Reinforcement work									
DSR-2016 Item no. 5.22A.6 Page-101	47	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars	Kg	116.81	56.60	6,611.45	-	-	6,611.45		
--N/A--	48	Masonry Work (Bricks Masonary, Stone Masonary)									

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-D Store		Total No. of Block x Buildup Area / Length => ( 1 x 18.87 = 18.87 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 6.4.2 Page-111	49	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	9.87	5582.85	55,102.73	-	-	55,102.73	
--N/A--	51	Door Window frames Works (Wood, Steel Work etc.)								
DSR-2016 Item no. 9.53 Page-152	52	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand: 6 graded stone aggregate 20mm nominal size).	Each	20.00	118.60	2,372.00	-	-	2,372.00	
DSR-2016 Item no. 10.15.1 Page-184	53	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	56.42	124.05	6,998.90	-	-	6,998.90	
--N/A--	54	Roofing								
DSR-2016 Item no. 10.2 Page-182	55	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	1200.74	67.60	81,170.02	-	-	81,170.02	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-D	Store	Total No. of Block x Buildup Area / Length => ( 1 x 18.87 = 18.87 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 12.1.2 Page-208	57	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 0.80 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	Sqm	39.34	818.95	32,217.49	-	-	32,217.49	
--N/A--	58	<b>Water Proofing</b>								
--N/A--	62	<b>FINISHING WORK</b>								
--N/A--	63	<b>Plastering</b>								
DSR-2016 Item no. 13.1.2 Page-227	64	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Sqm	52.21	172.95	9,029.72	-	-	9,029.72	
DSR-2016 Item no. 13.2.2 Page-227	65	15 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Sqm	47.38	200.25	9,487.85	-	-	9,487.85	
--N/A--	67	<b>Painting</b>								
DSR-2016 Item no. 13.42.1 Page-230	71	Distemping with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coats on new work	Sqm	52.21	53.15	2,774.96	-	-	2,774.96	
DSR-2016 Item no. 13.44.1 Page-230	72	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm) on External surface	Sqm	47.38	58.80	2,785.94	-	-	2,785.94	
--N/A--	73	<b>Door Window Works (Wood, Steel Work etc.)</b>								

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-D	Store	Total No. of Block x Buildup Area / Length => ( 1 x 18.87 = 18.87 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 9.21.2 Page-148	74	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	3.78	1559.75	5,895.86	-	-	5,895.86	
Rate Analysis Item no. NS-03	76	Providing and fixing of Window & ventilator with Almunium frames, Glass 4 mm thick and Wiremesh of approved brand and approved size and finishes fixing glass panes with necessary glazing clips complete as per drawing and with the satisfaction of project in-charge.	Sqm	1.80	-	0.00	3067.58	5521.64	5,521.64	
DSR-2016 Item no. 9.100.2 Page-159	77	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 100 mm	Each	8.00	45.10	360.80	-	-	360.80	
DSR-2016 Item no. 9.101.1 Page-159	78	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Single rubber stopper	Each	2.00	27.55	55.10	-	-	55.10	
DSR-2016 Item no. 9.102 Page-159	79	Providing and fixing aluminium casement stays, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.	Each	2.00	49.50	99.00	-	-	99.00	
DSR-2016 Item no. 9.113 Page-161	81	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineerin-charge.	No.	3.00	473.65	1,420.95	-	-	1,420.95	



Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-D Store		Total No. of Block x Buildup Area / Length => ( 1 x 18.87 = 18.87 Sqm )							
A	B	C	D	E	F	G	H	I	J	K
--N/A--	83	False Ceiling Work								
--N/A--	85	FLOORING WORK								
--N/A--	86	Stone Work (Kota, Marble & Granite etc.)								
--N/A--	93	Tile works								
--N/A--	96	Other Flooring								
DSR-2016 Item no. 11.3.1 Page-191	97	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	Sqm	16.40	362.60	5,946.64	-	-	5,946.64	
--N/A--	98	Other Misc Works								
					Sub Total	3,01,385.92		8,260.25	3,09,646.17	
					After applying Cost index 1.0588	3,19,107.42		8,260.25	3,27,367.67	

Note : In DSR 2016 amount proposed Cost Index is 105.88 (Ref: CPWD 2016 (DPAR 2012 Base 102) = 105.88 (Note = 100 x 108 / 102 = 105.88 ).

Abstract of Work

[ Paved path work & Yoga  
Space ( Block-i ) ]

### Abstract of Work

Client : Nagar Nigam Dehradun

Name of work : REJUVENATION OF GANDHI PARK AS URBAN GREEN SPACE AT DEHRADUN, UTTARAKHAND

Name of ARCHITECTS Agency : Space I Design

Ref. No. :

#### Abstract of Work

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-i	Paved path work & Yoga Space			Total No. of Block x Buildup Area / Length => ( 1 x 7226 = 7226.00 Sqm )					
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 2.27 Page-80	18	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	4.00	917.75	3,671.00	-	-	3,671.00	
DSR-2016 Item no. 4.1.8 Page-88	22	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : P.C.C. 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 20 mm nominal size)	Cum	16.30	4478.15	72,993.85	-	-	72,993.85	
DSR-2016 Item no. 11.3.1 Page-191	97	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate	Sqm	300.00	362.60	1,08,780.00	-	-	1,08,780.00	
DSR-2016 Item no. 16.68 Page-277	99	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	6926.00	615.70	42,64,338.20	-	-	42,64,338.20	

Rate Ref. ( SOR / DSR / Rate Analysis)	BOQ				(As per DSR-2016)		(As per Rate Analysis)		Total Amount (INR) ( G + I )	Remarks
	BOQ Item No.	Item of work	Unit	Quantity	Rate (INR)	Amount (INR)	Rate (INR)	Amount (INR)		
	Block-i	Paved path work & Yoga Space			Total No. of Block x Buildup Area / Length => ( 1 x 7226 = 7226.00 Sqm )					
A	B	C	D	E	F	G	H	I	J	K
DSR-2016 Item no. 16.69 Page-278	100	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	117.79	5012.65	5,90,440.04	-	-	5,90,440.04	
Rate Analysis Item no. NS-04	101	Surface Drains in Soil by Mechanical means: Construction of unlined surface drains of average cross-sectional area upto 0.40 sqm in soil to specified lines, grades, levels and dimensions. Excavated material to be used in embankment with a lift upto 3m and lead of 50 m (average lead 25 m) as per Technical Specification Clause 307.	Rmt	2094.00	-	0.00	15.75	32980.50	32,980.50	
				-						
					Sub Total	50,40,223.09		32,980.50	50,73,203.59	
					After applying Cost index 1.0588	53,36,588.21		32,980.50	53,69,568.71	

**Note :** In DSR 2016 amount proposed Cost Index is 105.88 (Ref: CPWD 2016 (DPAR 2012 Base 102) = 105.88 (Note = 100 x 108 / 102 = 105.88 ).