

TENDER

(NIT NO. TA/TCL/**01**/19-20)

FOR

**MAINTENANCE OF GARDENS IN BHEL
TOWNSHIP.**

PRICE BID

SECTION - VI



**TOWNSHIP CIVIL MAINTENANCE
BHARAT HEAVY ELECTRICALS LIMITED**

**(A Government of India Undertaking)
BHOPAL - 462 022 (M.P)**

PREAMBLE OF PRICE BID

1.0. This Price Bid consists of three Schedules:

1.1 Schedule A

Schedule A consists of following Annexures:

1) Annexure –I includes items based on Rate analysis.

Bidders are requested to quote their total amount for Annexure-I.

2) Annexure –A2, B2, C2, D2 & E2 – Scope of work.

3) Annexure –A3, B3, C3, D3 & E3 – List of materials/chemicals for garden maintenance.

4) Annexure –A4, B4, C4, D4 & E4 – List of tools & tackles for garden maintenance.

1.2 Schedule B

Schedule B gives the details of free issue materials given by BHEL.

1.3 Schedule C

Schedule C gives the details of Tools & Tackles provided by BHEL on Chargeable Basis.


2.0 The work to be carried out under the contract shall, except as otherwise provided in tender conditions, include all labour, materials, tools, plant, equipment, and transport which may be required in preparation of and for full & entire execution and completion of the Works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held to include waste on materials, carriage and cartage, carrying in return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles as laid down in Technical Specification & elsewhere in Tender Specification.

3.0 The price bid should not contain any condition. Conditional price Bids shall be summarily rejected.

4.0 The bidder should not leave any column blank in Price Schedules.

5.0 Price Quoted shall include all taxes, & duties except GST.

6.0 **Unless otherwise specified in the items involving cement or reinforcement steel, these items shall be issued free of cost by BHEL.**

		TOWNSHIP CIVIL MAINT. & CONST. DIVISION				
SCHEDULE 'A'						
						Annexure: I
Name of work :- Maintenance of Gardens in BHEL Township.						
S.No	Description of items	Qty.	Unit	Rate (Rs.)	Amount (Rs)	Weightage
	Maintenance and upkeep of gardens in Township :- (i) Kamla Nehru Bal Udhyan(ChildrenPark) (Appox. Area - 60000 sqm) (ii) Rose garden, Ambedkar park & Traffic park (Appox. Area - 38000 sqm) (iii) Small Gardens as listed below. (iv) Gandhi Udhyan (Appox. Area - 20000 sqm) (V) Sports Grounds in Sports complex and in other area as listed below. (Appox. Area - 37000 sqm)					
1	Un-skilled workers Note:- Deployment of unskilled workers shall be as per clause 9.0 of Special Terms & Conditions.	12.00	month	-	-	92.02
2	Skilled workers for Supervision of work Note:- Deployment of skilled workers shall be as per clause 9.0 of Special Terms & Conditions.	12.00	Month	-	-	7.04
3	Supply of good & healthy hybrid rose plants (mixed variety) of, minimum height range from 2 to 3 feet, free from pest & diseases. The plant should be wrapped & grown in polythene bags including all lead & lift at site. Polythene bags shall also be supplied by the contractor. <u>Note</u> :- The list consisting of names of Hybrid rose plants (mixed variety) shall be provided by the department.(Only for Rose Garden)	1500.00	Nos	-	-	0.94
				Total Amount	-	100%
				TOTAL AMOUNT QUOTED (RS.)		
Note:-						
(i) The Bidder is advised to carefully examine gardenwise scope of work ,list of materials/chemicals , list of tools & tackles, man power requirements enumerated at Annexures -(A2, B2, C2, D2 & E2), (A3, B3, C3, D3 & E3),(A4, B4, C4, D4 & E4) and NIT clause 31 of General Terms & Conditions and clauses 6.5 & 9.0 of Special Terms & Conditions respectively before quoting his rate.						
(ii) The percent weightage as indicated against items at sr. no. 1,2 & 3 of the above-said Annexure-I are only for calculation of deduction due to shortfall in manpower deployment as indicated at clause 6.5 of Special Terms & Conditions.						
(iii) The bidder shall quote total price on lumpsum basis for all the items of all the gardens taken together. The respective awarding amounts for Kamla Nehru Bal Udyan (i.e. Children Park) plus Gandhi Udyan, small gardens plus Sports Grounds, Rose Garden plus nearby garden shall be 49.17%, 28.76% & 22.07% of the above said total lumpsum amount. The item no. 3 mentioned above will be only for Rose garden and nearby gardens which will be included in 22.07 % distribution of total awarding amount. For item wise further distribution in case of gardens/grounds, the respective awarding amounts shall be distributed as per clause 9.0 of Special terms and conditions.						
SI No	Name of Garden/Ground				Split ratio	
A	Kamla Nehru Bal Udhyan(i.e. children park) Gandhi Udhyan				49.17	
B	Small Gardens Sports grounds in Sports Complex				28.76	
C	Rose Garden & nearby gardens				22.07	
In case of requirement of award of minimum 20% work to MSE(s) arising due to MSE contractors quoting within L1 (lowest bidder) + 15% band and accepting L1's rate (where L1 is a contractor other than an MSE) further distribution of work to accommodate MSE(s) shall, by and large, be in the ratio of respective estimated values of individual gardens.						
(iv) List of small gardens - 1. <u>Berkhera area</u> - Guest House Annexe (1 & 2), CISF Guest House, Swarnjayanti Chouraha, MRSS(Meter reading sub station) + E sector Substation, Basant Park Berkhera, GH Civil Office +Main Civil Office +Pump Houses (2 Nos) in A sector + Mangalik Sthal, Orchard, Rani Durgawati Park + Adjoining Park 2. <u>Piplani area</u> - Hostel No 4 Garden Area, Gate No 5 Garden, MGM Dispensary Garden, B Sector Piplani Dispensary Garden, Shastri Park Piplani, Gunjan Park, Electrical, watersupply, civil office gardens and Other areas as per instruction of Site-in-Charge.						
(v) List of Sports grounds in Sports Complex and other area :- Cricket ground, Hockey ground, Athletic ground, Basket ball, Volleyball, Lawn tennis and Kabbaddi ground in sports complex, Berkhera & football ground, Piplani.						
(vi) GST shall be extra as applicable.						
SIGNATURE OF CONTRACTOR						

KAMLA NEHRU BAL UDHYAN (CHILDREN PARK) IN BERKHERA BHEL TOWNSHIP.**ANNEXURE-A2****SCOPE OF WORK****SCOPE OF WORK AS MENTIONED IN ITEM NO 1 OF PRICE SCHEDULE SHALL COMPRISE OF FOLLOWING ACTIVITIES**

S.N.	ACTIVITY	FREQUENCY
1	Sweeping of lawn area (including inside road & footpath/pavement) to clear off fallen leaves/vegetations and dispose off rubbish near by dustbin as directed by Engineer in-Charge etc.	Daily
2	Cutting and shaping of hedges	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
3	Maintenance of lawn including weeding, chilling/scraping, cutting/ mowing etc complete to keep it in a presentable shape.	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
4	Pruning and shaping of trees/shrubs/other plants including making thalas around them.	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
5	Maintenance of hanging basket plants and pot plants kept at identified places inside the premises including changing of soil mixed with manure in desired proportion including colouring of pots as and when needed(colouring material shall be made available by the department) .However all tools and plant for doing the job shall be the responsibility of contractor.	Daily
6	Shifting and arranging pot plants at places required for decoration during a function /ceremony /celebration /welcome of guest/ special occassions etc.	As and when required with a reasonable notice period
7	Maintenance of nursery, flowerbeds including plantation of seasonal plants etc.	Daily
8	In the garden and related area, in case a tree falls for any reason the contractor would be required to arrange fast removal of same including cutting, making pieces of same, transporting the same to identified location within 2 Km lead and depositing the same with BHEL authority there as per instruction and full satisfaction of BHEL Engineer.	As and when required with a reasonable notice period
9	Cutting of all type of unwanted vegetation between the road and boundarywall,Outer premises of garden area, cleaned and disposal of rubbish near by dustbin.	Monthly
10	Providing security services through watch & ward round the clock in different locations in gardens as per clause 9.0 of Special Terms & Conditions. 1. The cost of uniform, whistle, lathi, torch etc shall be included in the rate 2. For any damage to property of BHEL such as pipe line, fencing, pipes, pumps, pots, office material, electrical item etc caused by the contractor or his worker(s), cost of such item shall be liable to be recovered from the contractor .	Daily
11	Application of Good Earth & Cow dung manure (issued by BHEL free of cost)	As per requirement
12	Supply & application of pesticide & fertilizers	As and when needed and as per the requirement. (Ref Annexure A3)

NOTE:

- (i) The above activities shall also include watering of garden including lawn, flower beds, trees, shrubs, hedges, hanging basket plants and pot plants etc
- (ii) The contractor shall maintain materials/chemicals and tools and plants as per the list enclosed at Annexure A3 & A4 respectively for accomplishing the task successfully as per the scope defined.
- (iii) Unless otherwise mentioned, the work shall include all materials/chemicals, tools & plants etc complete so as to accomplish the task successfully.

(iv)	As per BHEL's assessment, on an average thirty (30) workers per day in addition to one supervisor per day having experience in horticultural activities would be needed to accomplish the task successfully. The bidder is required to take this aspect into account before quoting his rates. Deduction for short fall in deployment of worker shall be made from the contractor's bill As per NIT Condition at sr. no. 6.5 of Special Terms and Conditions. Penalty shall be imposed for non-deployment of manpower as per clause 31 of General Terms & Conditions.
(v)	If any short fall is found in maintaining frequency of any activity indicated in scope of work, penalty on each such activity mentioned at S.N. 1 to 12 above shall be imposed @ 2% of respective month's amount of Item No. 1 in price schedule of this garden.
(vi)	The Contractor or his representatives shall supervise all activities of garden maintenance mentioned in scope of work and also ensure quality of work on daily basis as per instruction of Engineer-in-Charge.
(vii)	All the services except watch & ward envisaged in scope of work to be carried out by contractor as per schedule / frequency except for weekly off (Sunday) & BHEL Holidays. Watch & Ward shall be engaged in three shifts on all days of the week.
(viii)	For proper watering of lawns, BHEL shall provide sprinkler arrangement with compatible pipes to the contractor to the extent possible depending upon availability in the beginning of the contract. However maintaining and augmenting the resource inventory as per need shall be the sole responsibility of the contractor. At the end of the contract, the contractor would be required to return BHEL pipes and sprinkler system in working condition while pots, hanging baskets made of fiber sheet in good condition failing which recovery at double the market rate or procurement rate, whichever is higher, shall be made from any amount due to the contractor.
(ix)	Scope of Work has been broadly defined as above. However anything which is not explicitly mentioned in the scope of work but required to be done for proper upkeep and maintenance of garden shall be part of the scope of work.
(x)	Suitable database shall be maintained for attendance of man-power and following information duly certified by competent authority shall be submitted along with bills for payment :-
	(1) Total man-days to be deployed in a quarter as per contract.
	(2) Total man-days actually deployed in the month.
	(3) Total cumulative man-days actually deployed upto the month.
	(4) Total cumulative man-days actually deployed upto the quarter.
	In the last month of the quarter, deduction for shortfall in deployment of labourers shall be effected taking the cumulative figure into consideration.
	Signature of Contractor

	KAMLA NEHRU BAL UDHYAN (CHILDREN PARK) IN BERKHERA		
	List of materials/chemicals for Garden Maintenance (Indicative)		
	Annexure-	A 3	
Sl	Name of of Material (Chemical)	Unit	Total yearly consumption
1	Urea	kg	150
2	Super phosphate	kg	100
3	Murate of potash	kg	100
4	Gromore 14:35:14	kg	100
5	DAP 28:28	kg	100
6	Neem Cake	kg	150
7	Bone meal/ Cera meal	kg	100
11	Copper oxychloride	kg	5
12	Bawistin	kg	5
13	Nuvan/Roger	liter	15
	<p>Note:- The above list of materials/chemicals for garden maintainance is indicative and not exhaustive for smooth execution of work envisaged under the scope. The Contractor shall ensure supply of appropriate materials/ chemicals with desired quantity & frequency as & when required for completing the respective activity or as per requirement raised by engineer in-charge. In case of non-performance/non- execution of any of the activity defined in scope of work due to non-supply & non-application of above materials/chemical(s), deduction shall be made as per condition mentioned in Note at serial No(v) under scope of work.</p>		
	Signature of Contractor		

KAMLA NEHRU BAL UDHYAN (CHILDREN PARK) IN BERKHERA BHEL**Annexure-****A 4****List of Tools & Tackles for Garden Maintenance (Indicative)**

Sl	List of Tools & Tackles	Unit	Total yearly consumption
1	Power Lawn Mower(Fuel operated)	No	3
2	Hand Trolly/ Thela	No	2
3	Rubber Hose Pipe/ PVC Braided Hose Pipe (3/4"/1") dia	RM	800
4	Broom Coconut	No	20x12=240
5	Broom Fine	No	2x12=24
6	Gainti(Pickaxe) Good quality/ standard make with Handle	No	20
7	Phawada(Spade) Good quality/ standard make with Handle	No	20
8	Tagari- Good quality/ standard make	No	20
9	Kulhadi- Good quality/ standard make	No	10
10	Khurpi- Good quality/ standard make	No	25
11	Watercane - Good quality/ standard make	No	2
12	Spray pump- Good quality/ standard make(1 Lit capacity)	No	5
13	Spray pump- Good quality/ standard make(15 Lit capacity)	No	1
14	Hedge cutter- Good quality/ standard make	No	5
15	Rose cutter- Good quality/ standard make	No	10
16	Rope 3/4" dia	RM	200
17	Dalia	no	20x12=240
18	Garden rake	no	20
19	Brush Cutter	no	2

Note:- The above list of tools & Tackles for garden maintenance is indicative and not exhaustive for smooth execution of work envisaged under the scope. The Contractor shall ensure deployment of appropriate tools and tackles with desired standard as & when required for completing the respective activity or as per requirement raised by engineer in-charge. In case of non-performance/non- execution of any of the activity defined in scope of work due to non-deployment of above tools/tackles, deduction shall be made as per condition mentioned in Note at serial No(v) under scope of work.

Signature of Contractor

ROSE GARDEN+AMBEDKAR PARK+TRAFFIC PARK		
		ANNEXURE-B2
SCOPE OF WORK		
SCOPE OF WORK AS MENTIONED IN ITEM NO 1 OF PRICE SCHEDULE SHALL COMPRISE OF FOLLOWING		
S.N.	ACTIVITY	FREQUENCY
1	Sweeping of lawn area (including inside road & footpath/pavement) to clear off fallen leaves/vegetations and dispose off rubbish to near by dustbin complete as directed by Engineer-in-Charge .	Daily
2	Cutting and shaping of hedges	Monthly in all seasons except monsoon season/ Fortnightly in monsoon season
3	Maintenance of lawn including weeding, chilling/scraping, cutting/ mowing etc complete to keep it in a presentable shape.	Monthly in all seasons except monsoon season/ Fortnightly in monsoon season
4	Pruning and shaping of trees/shrubs/other plants including making thalas around them.	Monthly in all seasons except monsoon season/ Fortnightly in monsoon season
5	Maintenance of hanging basket plants and pot plants kept at identified places inside the premises including changing of soil mixed with manure in desired proportion including colouring of pots as and when needed(colouring material shall be made available by the department) .However all tools and plants for doing the job shall be the responsibility of contractor.	Daily
6	Shifting and arranging pot plants at places required for decoration during a function /ceromony /celebration /welcome of guest/ special occassions etc.	As and when required with a reasonable notice period
7	Maintenance of nursery, flowerbeds including plantation of seasonal plants etc.	Daily
8	In the garden and related area, in case a tree falls for any reason, the contractor shall be required to arrange fast removal of the same including cutting, making pieces of the same, transporting the same to identified location within 2 Km lead and depositing the same with BHEL authority there as per instruction and full satisfaction of BHEL Engineer.	As and when required with a reasonable notice period
9	Cutting of all type of unwanted vegetation between the road and boundarywall,Outer premises of garden area, cleaning and disposal of rubbish to near by dustbin.	Monthly
10	The specialised Rose garden activities to be carried out by Skilled worker are such as cutting of rose plants, applying fertilizer/ pesticide, removal of dead rose stems/buds, removal of sucker shoots etc complete. as directed by Engineer-in-Charge.	
11	Providing security services through watch & ward round the clock in different locations in gardens as per clause 9.0 of Special Terms & Conditions. 1. The cost of uniform, whistle, lathi, torch etc shall be included in the rate 2. For any damage to property of BHEL such as pipe line, fencing, pipes, pumps, pots, office material, electrical item etc caused by the contractor or his worker(s), cost of such item shall be liable to be recovered from the contractor .	Daily
12	Application of Good Earth & Cow dung manure (issued by BHEL free of cost)	As per requirement
13	Supply & application of pesticides & fertilizers	As and when needed and as per the requirement. (Ref Annexure B3)
NOTE:		
(i)	The above activities shall also include watering of garden including lawn, flower beds, trees, shrubs, hedges, hanging basket plants and pot plants etc	
(ii)	The contractor shall maintain materials/chemicals and tools and plants as per the list enclosed at Annexure B3 & B4 respectively for accomplishing the task successfully as per the scope defined.	
(iii)	Unless otherwise mentioned, the work shall include all materials/chemicals, tools & plants etc complete so as to accomplish the task successfully.	

(iv)	As per BHEL's assessment, on an average seventeen (17) workers per day in addition to one supervisor per day having experience in horticultural activities would be needed to accomplish the task successfully. The bidder is required to take this aspect into account before quoting his rates. Deduction for short fall in deployment of worker shall be made from the contractor's bill As per NIT Condition at sr. no. 6.5 of Special Terms and Conditions. Penalty shall be imposed for non-deployment of manpower as per clause 31 of General Terms & Conditions.
(v)	If any short fall is found in maintaining frequency of any activity indicated in scope of work, penalty on each such activity mentioned at S.N. 1 to 13 above shall be imposed @ 2% of respective month's amount of Item No. 1 in price schedule of this garden.
(vi)	The Contractor or his representatives shall supervise all activities of garden maintenance mentioned in scope of work and also ensure quality of work on daily basis as per instruction of Engineer-in-Charge.
(vii)	All the services except watch & ward envisaged in scope of work to be carried out by contractor as per schedule / frequency except for weekly off (Sunday) & BHEL Holidays. Watch & Ward shall be engaged in three shifts on all days of the week.
(viii)	For proper watering of lawns, BHEL shall provide sprinkler arrangement with compatible pipes to the contractor to the extent possible depending upon availability in the beginning of the contract. However maintaining and augmenting the resource inventory as per need shall be the sole responsibility of the contractor. At the end of the contract, the contractor would be required to return BHEL pipes and sprinkler system in working condition while pots, hanging baskets made of fiber sheet in good condition failing which recovery at double the market rate or procurement rate, whichever is higher, shall be made from any amount due to the contractor.
(ix)	Scope of Work has been broadly defined as above. However anything which is not explicitly mentioned in the scope of work but required to be done for proper upkeep and maintenance of garden shall be part of the scope of work.
(x)	Suitable database shall be maintained for attendance of man-power and following information duly certified by competent authority shall be submitted along with bills for payment :-
	(1) Total man-days to be deployed in a quarter as per contract.
	(2) Total man-days actually deployed in the month.
	(3) Total cumulative man-days actually deployed upto the month.
	(4) Total cumulative man-days actually deployed upto the quarter.
	In the last month of the quarter, deduction for shortfall in deployment of labourers shall be effected taking the cumulative figure into consideration.
	Signature of Contractor

	ROSE GARDEN+AMBEDKAR PARK+TRAFFIC PARK		
	List of materials/chemicals for Garden Maintanance (Indicative)		
	Annexure-		B 3
Sl	Name of of Material (Chemicals)	Unit	Total yearly consumption
1	Urea	kg	300
2	Super phosphate	kg	300
3	Murate of potash	kg	300
4	Gromore 14:35:14	kg	300
5	DAP 28:28	kg	300
6	Neem Cake	kg	1000
7	Bone meal/ Cera meal	kg	1000
8	Chlorpyriphos	Liter	10
9	Folidol/Perathian 5% Powder	kg	200
10	Thimate10g/Phorate10g/Furadan3g	kg	100
11	Copper oxychloride	kg	10
12	Bawistin	liter	5
13	Nuvan/Roger	liter	10
14	Cow dung Manure (Free Issue Material)	Cum	100
15	Black Cotton Soil (Free Issue Material)	Cum	50
16	Polythene bag 4"X6"	Kg	20
17	Polythene bag 6"X8"	Kg	20
18	Polythene bag 10"X12"	Kg	20
19	Rainbow (Neela thota)	kg	10
20	Tezer	Liter	10
21	Garud Guard	Liter	10
	Note:- The above list of materials/chemicals for garden maintainance is indicative and not exhaustive for smooth execution of work envisaged under the scope. The Contractor shall ensure supply of appropriate materials/ chemicals with desired quantity & frequency as & when required for completing the respective activity or as per requirement raised by engineer in-charge. In case of non-performance/non- execution of any of the activity defined in scope of work due to non-supply & non-application of above materials/chemical(s), deduction shall be made as per condition mentioned in Note at serial No(v) under scope of work.		
	Signature of Contractor		

ROSE GARDEN+AMBEDKAR PARK+TRAFFIC PARK**Annexure-****B 4****List of Tools & Tackles for Garden Maintenance (Indicative)**

Sl	Name of Tools & Tackles	Unit	Total yearly consumption
1	Power Lawn Mower(Fuel operated)	No	2
2	Hand Trolly/ Thela	No	3
3	Rubber Hose Pipe/ PVC Braided Hose Pipe (3/4" or 1" dia	RM	500
4	Broom Coconut	No	20x12=240
5	Broom Fine	No	2x12=24
6	Gainti(Pickaxe) Good quality/ standard make with Handle	No	20
7	Phawada(Spade) Good quality/ standard make with Handle	No	20
8	Tagari- Good quality/ standard make	No	20
9	Kulhari-Good quality/ standard make	No	4
10	Khurpi- Good quality/ standard make	No	20
11	Watercane - Good quality/ standard make	No	2
12	Spray pump- Good quality/ standard make	No	2
13	Hedge cutter- Good quality/ standard make	No	2
14	Rose cutter- Good quality/ standard make	No	6
15	Rope 3/4" dia	RM	200
16	Dalia	no	20x12=240
17	Garden rake	no	10
18	Brush Cutter	no	2

Note:- The above list of tools & Tackles for garden maintenance is indicative and not exhaustive for smooth execution of work envisaged under the scope. The Contractor shall ensure deployment of appropriate tools and tackles with desired standard as & when required for completing the respective activity or as per requirement raised by engineer in-charge. In case of non-performance/non- execution of any of the activity defined in scope of work due to non-deployment of above tools/tackles, deduction shall be made as per condition mentioned in Note at serial No(v) under scope of work.

Signature of Contractor

NAME OF WORK : MAINTENANCE OF SMALL GARDENS IN BHEL TOWNSHIP.		
		ANNEXURE-C2
SCOPE OF WORK		
SCOPE OF WORK AS MENTIONED IN ITEM NO 1 OF PRICE SCHEDULE SHALL COMPRISE OF FOLLOWING		
S.N.	ACTIVITY	FREQUENCY
1	Sweeping of lawn area (including inside road & footpath/pavement) to clear off fallen leaves/vegetations and dispose off rubbish to near by dustbin complete as directed by Engineer-in-Charge .	Daily
2	Cutting and shaping of hedges	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
3	Maintenance of lawn including weeding, chilling/scraping, cutting/mowing etc complete to keep it in a presentable shape.	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
4	Pruning and shaping of trees/shrubs/other plants including making thalas around them.	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
5	Maintenance of hanging basket plants and pot plants kept at identified places inside the premises including changing of soil mixed with manure in desired proportion including colouring of pots as and when needed(colouring material shall be made available by the department) .However all tools and plants for doing the job shall be the responsibility of contractor.	Daily
6	Shifting and arranging pot plants at places required for decoration during a function /ceremony /celebration /welcome of guest/ special occasions etc.	As and when required with a reasonable notice period
7	Maintenance of nursery, flowerbeds including plantation of seasonal plants etc.	Daily
8	In the garden and related area, in case a tree falls for any reason, the contractor shall be required to arrange fast removal of the same including cutting, making pieces of the same, transporting the same to identified location within 2 Km lead and depositing the same with BHEL authority there as per instruction and full satisfaction of BHEL Engineer.	As and when required with a reasonable notice period
9	Cutting of all type of unwanted vegetation between the road and boundarywall,Outer premises of garden area, cleaning and disposal of rubbish to near by dustbin.	Monthly
10	Application of Good Earth & Cow dung manure (issued by BHEL free of cost)	As per requirement
11	Supply & application of pesticides & fertilizers	As and when needed and as per the requirement. (Ref Annexure C3)
NOTE:		
(i)	The above activities shall also include watering of garden including lawn, flower beds, trees, shrubs, hedges, hanging basket plants and pot plants etc.	
(ii)	The contractor shall maintain materials/chemicals and tools and plants as per the list enclosed at Annexure C3 & C4 respectively for accomplishing the task successfully as per the scope defined.	
(iii)	Unless otherwise mentioned, the work shall include all materials/chemicals, tools & plants etc complete so as to accomplish the task successfully.	

(iv)	As per BHEL's assessment, on an average seventeen (17) workers per day in addition to one supervisor per day having experience in horticultural activities would be needed to accomplish the task successfully. The bidder is required to take this aspect into account before quoting his rates. Deduction for short fall in deployment of worker shall be made from the contractor's bill As per NIT Condition at sr. no. 6.5 of Special Terms and Conditions. Penalty shall be imposed for non-deployment of manpower as per clause 31 of General Terms & Conditions.
(v)	If any short fall is found in maintaining frequency of any activity indicated in scope of work, penalty on each such activity mentioned at S.N. 1 to 11 above shall be imposed @ 2% of respective month's amount of Item No. 1 in price schedule of this garden.
(vi)	The Contractor or his representatives shall supervise all activities of garden maintenance mentioned in scope of work and also ensure quality of work on daily basis as per instruction of Engineer-in-Charge.
(vii)	All the services in scope of work to be carried out by contractor as per schedule / frequency except for weekly off (Sunday) & BHEL Holidays.
(viii)	For proper watering of lawns, BHEL shall provide sprinkler arrangement with compatible pipes to the contractor to the extent possible depending upon availability in the beginning of the contract. However maintaining and augmenting the resource inventory as per need shall be the sole responsibility of the contractor. At the end of the contract, the contractor would be required to return BHEL pipes and sprinkler system in working condition while pots, hanging baskets made of fiber sheet in good condition failing which recovery at double the market rate or procurement rate, whichever is higher, shall be made from any amount due to the contractor.
(ix)	Scope of Work has been broadly defined as above. However anything which is not explicitly mentioned in the scope of work but required to be done for proper upkeep and maintenance of garden shall be part of the scope of work.
(x)	Suitable database shall be maintained for attendance of man-power and following information duly certified by competent authority shall be submitted along with bills for payment :-
(x)	(1) Total man-days to be deployed in a quarter as per contract.
	(2) Total man-days actually deployed in the month.
	(3) Total cumulative man-days actually deployed upto the month.
	(4) Total cumulative man-days actually deployed upto the quarter.
	In the last month of the quarter, deduction for shortfall in deployment of labourers shall be effected taking the cumulative figure into consideration.
	Signature of Contractor

	MAINTENANCE OF SMALL GARDENS IN BHEL TOWNSHIP.			
	List of material (Chemicals) for Garden Maintenance (Indicative)			
		Annexure-	C3	
Sl	List of Materials	Unit	Total yearly consumption	
			BERKHERA	PIPLANI
1	Urea	kg	150	200
2	Super phosphate	kg	50	200
3	Murate of potash	kg	50	200
4	Gromore 14:35:14	kg	300	200
5	DAP 28:28	kg	50	200
6	Neem Cake	kg	100	500
7	Bone meal/ Cera meal	kg	50	500
8	Chlorpyriphos	Liter	2	5
9	Folidol/Perathian 5% Powder	kg	100	100
10	Thimate10g/Phorate10g/Furadan3g	kg	50	50
11	Copper oxychloride	kg	2	-
12	Bawistin	kg	2	5
13	Nuvan/Roger	liter	5	10
	<p>Note:- The above list of materials/chemicals for garden maintainance is indicative and not exhaustive for smooth execution of work envisaged under the scope. The Contractor shall ensure supply of appropriate materials/ chemicals with desired quantity & frequency as & when required for completing the respective activity or as per requirement raised by engineer in-charge. In case of non-performance/non-execution of any of the activity defined in scope of work due to non-supply & non-application of above materials/chemical(s), deduction shall be made as per condition mentioned in Note at serial No(v) under scope of work.</p>			
	Signature of Contractor			

MAINTENANCE OF SMALL GARDENS IN BHEL TOWNSHIP.**Annexure-****C4****List of Tools and Tackles for Garden Maintenance (Indicative)**

Sl	List of Tools	Unit	Total yearly consumption	
			BERKHERA	PIPLANI
1	Power Lawn Mower(Fuel operated)	No	1	1
2	Hand Trolley/ Thela	No	2	3
3	Rubber Hose Pipe/ PVC Braided Hose Pipe (3/4"/1" dia	RM	800	500
4	Broom Coconut	No	12x12=144	20x12=240
5	Broom Fine	No	-	2x12=24
6	Gainti(Pickaxe) Good quality/ standard make with Handle	No	10	20
7	Phawada(Spade) Good quality/ standard make with Handle	No	10	20
8	Tagari- Good quality/ standard make	No	10	20
9	Kulhadi- Good quality/ standard make	No	-	4
10	Khurpi- Good quality/ standard make	No	8	20
11	Watercane - Good quality/ standard make	No	3	2
12	Spray pump- Good quality/ standard make	No	2	2
13	Hedge cutter- Good quality/ standard make	No	3	2
14	Rose cutter- Good quality/ standard make	No	2	6
15	Rope 3/4" dia	RM	50	100
16	Dalia	no	-	20x12=240
17	Garden rake	no	-	10
18	Brush Cutter	no	1	2

Note:- The above list of tools & Tackles for garden maintenance is indicative and not exhaustive for smooth execution of work envisaged under the scope. The Contractor shall ensure deployment of appropriate tools and tackles with desired standard as & when required for completing the respective activity or as per requirement raised by engineer in-charge. In case of non-performance/non- execution of any of the activity defined in scope of work due to non-deployment of above tools/tackles, deduction shall be made as per condition mentioned in Note at serial No(v) under scope of work.

Signature of Contractor

Gandhi Udhyan		
		ANNEXURE-D2
SCOPE OF WORK		
SCOPE OF WORK AS MENTIONED IN ITEM NO 1 OF PRICE SCHEDULE SHALL COMPRISE OF FOLLOWING		
S.N.	ACTIVITY	FREQUENCY
1	Sweeping of lawn area (including inside road & footpath/pavement) to clear off fallen leaves/vegetations and dispose off rubbish to near by dustbin complete as directed by Engineer-in-Charge .	Daily
2	Cutting and shaping of hedges	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
3	Maintenance of lawn including weeding, chilling/scraping, cutting/mowing etc complete to keep it in a presentable shape.	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
4	Pruning and shaping of trees/shrubs/other plants including making thalas around them.	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
5	Maintenance of hanging basket plants and pot plants kept at identified places inside the premises including changing of soil mixed with manure in desired proportion including colouring of pots as and when needed(colouring material shall be made available by the department) .However all tools and plants for doing the job shall be the responsibility of contractor.	Daily
6	Shifting and arranging pot plants at places required for decoration during a function /ceromony /celebration /welcome of guest/ special occassions etc.	As and when required with a reasonable notice period
7	Maintenance of nursery, flowerbeds including plantation of seasonal plants etc.	Daily
8	In the garden and related area, in case a tree falls for any reason, the contractor shall be required to arrange fast removal of the same including cutting, making pieces of the same, transporting the same to identified location within 2 Km lead and depositing the same with BHEL authority there as per instruction and full satisfaction of BHEL Engineer.	As and when required with a reasonable notice period
9	Cutting of all type of unwanted vegetation between the road and boundarywall,Outer premises of garden area, cleaning and disposal of rubbish to near by dustbin.	Monthly
10	Providing security services through watch & ward round the clock in different locations in gardens as per clause 9.0 of Special Terms & Conditions. 1. The cost of uniform, whistle, lathi, torch etc shall be included in the rate 2. For any damage to property of BHEL such as pipe line, fencing, pipes, pumps, pots, office material, electrical item etc caused by the contractor or his worker(s), cost of such item shall be liable to be recovered from the contractor .	Daily
11	Application of Good Earth & Cow dung manure (issued by BHEL free of cost)	As per requirement
12	Supply & application of pesticides & fertilizers	As and when needed and as per the requirement. (Ref Annexure D3)
NOTE:		
(i)	The above activities shall also include watering of garden including lawn, flower beds, trees, shrubs, hedges, hanging basket plants and pot plants etc.	
(ii)	The contractor shall maintain materials/chemicals and tools and plants as per the list enclosed at Annexure D3 & D4 respectively for accomplishing the task successfully as per the scope defined.	
(iii)	Unless otherwise mentioned, the work shall include all materials/chemicals, tools & plants etc complete so as to accomplish the task successfully.	

(iv)	As per BHEL's assessment, on an average eleven (11) workers per day in addition to one supervisor per day having experience in horticultural activities would be needed to accomplish the task successfully. The bidder is required to take this aspect into account before quoting his rates. Deduction for short fall in deployment of worker shall be made from the contractor's bill As per NIT Condition at sr. no. 6.5 of Special Terms and Conditions. Penalty shall be imposed for non-deployment of manpower as per clause 31 of General Terms & Conditions.
(v)	If any short fall is found in maintaining frequency of any activity indicated in scope of work, penalty on each such activity mentioned at S.N. 1 to 12 above shall be imposed @ 2% of respective month's amount of Item No. 1 in price schedule of this garden.
(vi)	The Contractor or his representatives shall supervise all activities of garden maintenance mentioned in scope of work and also ensure quality of work on daily basis as per instruction of Engineer-in-Charge.
(vii)	All the services except watch & ward envisaged in scope of work to be carried out by contractor as per schedule / frequency except for weekly off (Sunday) & BHEL Holidays. Watch & Ward shall be engaged in three shifts on all days of the week.
(viii)	For proper watering of lawns, BHEL shall provide sprinkler arrangement with compatible pipes to the contractor to the extent possible depending upon availability in the beginning of the contract. However maintaining and augmenting the resource inventory as per need shall be the sole responsibility of the contractor. At the end of the contract, the contractor would be required to return BHEL pipes and sprinkler system in working condition while pots, hanging baskets made of fiber sheet in good condition failing which recovery at double the market rate or procurement rate, whichever is higher, shall be made from any amount due to the contractor.
(ix)	Scope of Work has been broadly defined as above. However anything which is not explicitly mentioned in the scope of work but required to be done for proper upkeep and maintenance of garden shall be part of the scope of work.
(x)	Suitable database shall be maintained for attendance of man-power and following information duly certified by
	(1) Total man-days to be deployed in a quarter as per contract.
	(2) Total man-days actually deployed in the month.
	(3) Total cumulative man-days actually deployed upto the month.
	(4) Total cumulative man-days actually deployed upto the quarter.
	In the last month of the quarter, deduction for shortfall in deployment of labourers shall be effected taking the
	Signature of Contractor

	Gandhi Udhyan		
	List of material (Chemical) for Garden Maintenance (Indicative)		
	Annexure-		D 3
Sl	Name of of Material (Chemical)	Unit	Total yearly consumption
1	Urea	kg	300
2	Super phosphate	kg	200
3	Murate of potash	kg	200
4	Gromore 14:35:14	kg	300
5	DAP 28:28	kg	200
6	Neem Cake	kg	1000
7	Bone meal/ Cera meal	kg	1000
8	Chlorpyrifos	Liter	20
9	Folidol/Perathian 5% Powder	kg	200
10	Thimate10g/Phorate10g/Furadan3g	kg	100
11	Copper oxychloride	kg	5
12	Bawistin	kg	5
13	Nuvan/Roger	liter	10
	Note:- The above list of materials/chemicals for garden maintainance is indicative and not exhaustive for smooth execution of work envisaged under the scope. The Contractor shall ensure supply of appropriate materials/ chemicals with desired quantity & frequency as & when required for completing the respective activity or as per requirement raised by engineer in-charge. In case of non-performance/non- execution of any of the activity defined in scope of work due to non-supply & non-application of above materials/chemical(s), deduction shall be made as per condition mentioned in Note at serial No(v) under scope of work.		
	Signature of Contractor		

Gandhi Udhyan			
Annexure-			D4
List of Tools for Garden Maintenance (Indicative)			
Sl	Name of Tools & Tackles	Unit	Total yearly consumption
1	Power Lawn Mower(Fuel operated)	No	2
2	Hand Trolley/ Thela	No	2
3	Rubber Hose Pipe/ PVC Braided Hose Pipe (3/4" and/or 1" dia)	RM	800
4	Broom Coconut	No	20x12=240
5	Broom Fine	No	3x12=36
6	Gainti(Pickaxe) Good quality/ standard make with Handle	No	12
7	Phawada(Spade) Good quality/ standard make with Handle	No	12
8	Tagari- Good quality/ standard make	No	25
9	Kulhadi- Good quality/ standard make	No	2
10	Khurpi- Good quality/ standard make	No	15
11	Watercan - Good quality/ standard make	No	2
12	Spray Pump - Good quality/ standard make		2
13	Hedge cutter- Good quality/ standard make	No	5
14	Rose cutter- Good quality/ standard make	No	5
15	Rope 3/4" dia	RM	200
16	Dalia	No	15x12=180
17	Garden rake	No	2
18	Brush Cutter	No	2
19	Wood Cutter	No	1
<p>Note:-The above list of tools & Tackles for garden maintenance is indicative and not exhaustive for smooth execution of work envisaged under the scope. The Contractor shall ensure deployment of appropriate tools and tackles with desired standard as & when required for completing the respective activity or as per requirement raised by engineer in-charge. In case of non-performance/non- execution of any of the activity defined in scope of work due to non-deployment of above tools/tackles, deduction shall be made as per condition mentioned in Note at serial No(v) under scope of work.</p>			
Signature of Contractor			

SPORTS GROUNDS IN SPORTS COMPLEX		
		ANNEXURE-E2
SCOPE OF WORK		
SCOPE OF WORK AS MENTIONED IN ITEM NO 1 OF PRICE SCHEDULE SHALL COMPRISE OF FOLLOWING ACTIVITIES		
S.N.	ACTIVITY	FREQUENCY
1	Sweeping of lawn area clear of fallen leaves/vegetations and dispose off rubbish to near by dustbin as directed by Engineer-in-Charge etc.	Daily
2	Cutting and shaping of hedges	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
3	Maintenance of lawn including weeding, chilling/scraping, cutting/ mowing etc complete to keep it in a presentable shape.	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
4	Pruning and shaping of trees/shrubs/other plants including making thalas around them.	Monthly in all seasons except monsoon/ Fortnightly in monsoon season
5	Shifting and arranging pot plants at places required for decoration during a function /ceremony /celebration /welcome of guest/ special occassions etc.	As and when required with a reasonable notice period
6	Maintenance of nursery, flowerbeds including plantation of seasonal plants etc.	Daily
7	In the Sports Complex Area, in case a tree falls for any reason the contractor would be required to arrange fast removal of same including cutting, making pieces of same, transporting the same to identified location within 2 Km lead and depositing the same with BHEL authority there as per instruction and full satisfaction of BHEL Engineer.	As and when required with a reasonable notice period
8	Cutting of all type of unwanted vegetation between the road and boundarywall,Outer premises of garden area, cleaned and disposal of rubbish near by dustbin.	Monthly
9	Application of Good Earth & Cow dung manure (issued by BHEL free of cost)	As per requirement
10	Supply & application of pesticide & fertilizers	As and when needed and as per the requirement. (Ref Annexure E3)
NOTE:		
(i)	The above activities shall also include watering of garden including lawn, flower beds, trees, shrubs, hedges, hanging basket plants and pot plants etc	
(ii)	The contractor shall maintain materials/chemicals and tools and plants as per the list enclosed at Annexure E3 & E4 respectively for accomplishing the task successfully as per the scope defined.	
(iii)	Unless otherwise mentioned, the work shall include all materials/chemicals, tools & plants etc complete so as to accomplish the task successfully.	
(iv)	As per BHEL's assessment, on an average seven (7) workers per day in addition to one supervisor per day having experience in horticultural activities would be needed to accomplish the task successfully. The bidder is required to take this aspect into account before quoting his rates. Deduction for short fall in deployment of worker shall be made from the contractor's bill As per NIT Condition at sr. no. 6.5 of Special Terms and Conditions. Penalty shall be imposed for non-deployment of manpower as per clause 31 of General Terms & Conditions.	
(v)	If any short fall is found in maintaining frequency of any activity indicated in scope of work, penalty on each such activity mentioned at S.N. 1 to 10 above shall be imposed @ 2% of respective month's amount of Item No. 1 in price schedule of this garden.	
(vi)	The Contractor or his representatives shall supervise all activities of garden maintenace mentioned in scope of work and also ensure quality of work on daily basis as per instruction of Engineer-in-Charge.	

(vii)	All the services in scope of work to be carried out by contractor as per schedule / frequency except for weekly off (Sunday) & BHEL Holidays.
(viii)	For proper watering of lawns, BHEL shall provide sprinkler arrangement with compatible pipes to the contractor to the extent possible depending upon availability in the beginning of the contract. However maintaining and augmenting the resource inventory as per need shall be the sole responsibility of the contractor. At the end of the contract, the contractor would be required to return BHEL pipes and sprinkler system in working condition while pots, hanging baskets made of fiber sheet in good condition failing which recovery at double the market rate or procurement rate, whichever is higher, shall be made from any amount due to the contractor.
(ix)	Scope of Work has been broadly defined as above. However anything which is not explicitly mentioned in the scope of work but required to be done for proper upkeep and maintenance of garden shall be part of the scope of work.
(x)	Suitable database shall be maintained for attendance of man-power and following information duly certified by competent authority shall be submitted along with bills for payment :-
	(1) Total man-days to be deployed in a quarter as per contract.
	(2) Total man-days actually deployed in the month.
	(3) Total cumulative man-days actually deployed upto the month.
	(4) Total cumulative man-days actually deployed upto the quarter.
	In the last month of the quarter, deduction for shortfall in deployment of labourers shall be effected taking the cumulative figure into consideration.
	Signature of Contractor

	SPORTS GROUNDS IN SPORTS COMPLEX		
List of materials/chemicals for Garden Maintenance (Indicative)			
	Annexure-	E 3	
Sl	Name of of Material (Chemical)	Unit	Total yearly consumption
1	Urea	kg	As per Requirement
2	Super phosphate	kg	
3	Murate of potash	kg	
4	Gromore 14:35:14	kg	
5	DAP 28:28	kg	
6	Neem Cake	kg	
7	Bone meal/ Cera meal	kg	
8	Chlorpyriphos	Liter	
9	Folidol/Perathian 5% Powder	kg	
10	Thimate10g/Phorate10g/Furadan3g	kg	
11	Copper oxychloride	kg	
12	Bawistin	kg	
13	Nuvan/Roger	liter	
<p>Note:- The above list of materials/chemicals for garden maintainance is indicative and not exhaustive for smooth execution of work envisaged under the scope. The Contractor shall ensure supply of appropriate materials/ chemicals with desired quantity & frequency as & when required for completing the respective activity or as per requirement raised by engineer in-charge. In case of non-performance/non- execution of any of the activity defined in scope of work due to non-supply & non-application of above materials/chemical(s), deduction shall be made as per condition mentioned in Note at serial No(v) under scope of work.</p>			
	Signature of Contractor		

SPORTS GROUNDS IN SPORTS COMPLEX			
Annexure-			E 4
List of Tools & Tackles for Garden Maintenance (Indicative)			
Sl	List of Tools & Tackles	Unit	Total yearly consumption
1	Power Lawn Mower(Fuel operated)	No	2
2	Hand Trolly/ Thela	No	1
3	Rubber Hose Pipe/ PVC Braided Hose Pipe (3/4"/1" dia	RM	300
4	Broom Coconut	No	10x12=120
5	Gainti(Pickaxe) Good quality/ standard make with Handle	No	10
6	Phawada(Spade) Good quality/ standard make with Handle	No	10
7	Tagari- Good quality/ standard make	No	10
8	Kulhadi- Good quality/ standard make	No	4
9	Khurpi- Good quality/ standard make	No	10
10	Watercane - Good quality/ standard make	No	2
11	Hedge cutter- Good quality/ standard make	No	1
12	Rose cutter- Good quality/ standard make	No	1
13	Rope 3/4" dia	RM	200
14	Dalia	no	10x12=120
15	Garden rake	no	5
<p>Note:- The above list of tools & Tackles for garden maintenance is indicative and not exhaustive for smooth execution of work envisaged under the scope. The Contractor shall ensure deployment of appropriate tools and tackles with desired standard as & when required for completing the respective activity or as per requirement raised by engineer in-charge. In case of non-performance/non- execution of any of the activity defined in scope of work due to non-deployment of above tools/tackles, deduction shall be made as per condition mentioned in Note at serial No(v) under scope of work.</p>			
Signature of Contractor			

SCHEDULE – “B”							
Name of work :- Maintenance of Gardens in BHEL Township.							
1. Good Earth				}	Issued free of cost at Gadia Store/ sub-division		
2. Cow Dung Manure							
Note: If the contractor fails to return to the department unconsumed portion of total quantities of respective free issue material after completion of work or as and when instructed by Engineer-incharge, recovery at twice the respective material cost of the item as procured/decided by BHEL shall be made from the contractor's bill(s).							
SCHEDULE – “C”							
....NIL.....							
Signature of Contractor							