



CHHATTISGARH HOSUING AND INFRASTRUCTURE DEVELOPMENT BOARD

Request for Proposal

For

**Selection of Developer for “Redevelopment Project
on land parcel(s) of total area **0.65 Acres** at
Chandani Chowk, Jagdalpur on license basis”.**

RFP Document - Volume 3

**(Project Information Memorandum cum Detailed Project Report of
Government Facilities for redevelopment of land parcel of total area 0.65
acres at Chandani Chowk Phase II, Jagdalpur)**

June 2026

CHHATTISGARH HOUSING AND INFRASTRUCTURE DEVELOPMENT BOARD

Housing Board Colony, Bodh Ghaat, Jagdalpur, Bastar (Pin 494001)

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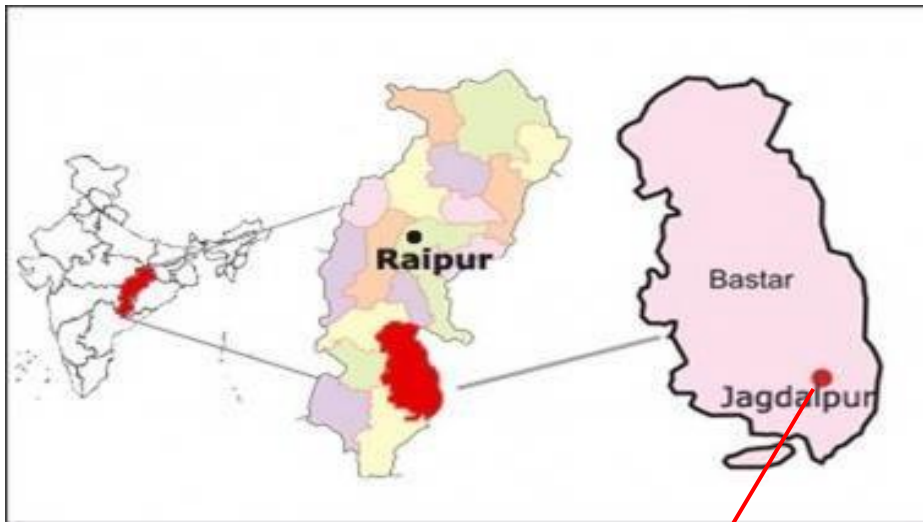
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Chhattisgarh eProcurement Website: <https://eproc.cgstate.gov.in>

1. Introduction – Jagdalpur

Jagdalpur is the administrative headquarters of Bastar district in the southern part of Chhattisgarh. Located at an elevation of about 552 metres above sea level, it lies on the southern banks of the Indravati River and forms part of the scenic Dandakaranya region. The city is known for its lush greenery, rolling hills, dense forests, waterfalls, and streams, making it one of the most picturesque areas of central India.

With a population of over three lakh, Jagdalpur is the fourth-largest city in Chhattisgarh. It serves as an important commercial hub for the surrounding tribal and rural areas, with agriculture forming the backbone of the local economy. The city is also home to industries such as rice mills, furniture manufacturing, and the nearby Nagarnar Steel Plant, which has added to its industrial significance.



Bastar District



Site Location – Chandni Chowk Redevelopment Phase-II

Jagdalpur enjoys good connectivity by air, rail, and road. Maa Danteshwari Airport, located on the outskirts of the city, operates regular flights to Raipur and Hyderabad. By road, the city is well-connected via National Highway 30 to Raipur, Visakhapatnam, and other major towns. Jagdalpur Railway Station links the city to Visakhapatnam, Raipur, Bhubaneswar, Howrah, and Durg through several passenger and express trains. The upcoming Rowghat–Jagdalpur rail line will further enhance connectivity and support regional development.

2. Proposal

For the implementation of the Redevelopment Scheme, the Government of Chhattisgarh, through order number F 9-45/2019/1/5 dated 25th November 2019 issued by the General Administration Department, has designated the Chhattisgarh Housing Board as the nodal agency. Further, necessary instructions for implementing the Redevelopment Scheme have been received under order number F 03-01/2020/32 dated 24-05-2022 from the Housing and Environment Department.

3. Objective of the Scheme

Under the Redevelopment Scheme, in the district headquarters and major cities of the state, various government departments and corporations/boards/companies that have previously constructed office and residential buildings — which have now become dilapidated and are currently unsuitable for use, and whose maintenance is neither practical nor financially viable — such land/parcels will be selected. The previously constructed building complexes will be demolished and systematically redeveloped. On the identified land/parcels, residential and commercial use will be done appropriately in accordance with the prevailing F.A.R., which will also help in increasing the revenue of the state government.

For the implementation of the Redevelopment Scheme, the land made available by the concerned department will be utilized by the Chhattisgarh Housing Board to construct office/residential buildings in exchange, at a mutually agreed value, and provide them to the concerned department/institution. On the remaining land, residential and commercial schemes will be implemented and made available to the general public as per rules.

With the implementation of the scheme, on one hand, the concerned department will receive newly constructed office buildings/residential complexes, and on the other hand, the implementation of residential-commercial schemes will not only provide additional revenue to the agency and the government but also enable the general public to access well-equipped facilities for their residential and commercial needs.

4. Scope

Under this scheme, the Redevelopment Plan will be implemented on the land of buildings/premises belonging to any department of the state government or its undertakings (corporations/boards). Generally, the scheme will be carried out in planning areas declared under Section 13 of the Chhattisgarh Nagar and Gram Nivesh Act, 1973. However, with the approval of the cabinet, the scheme can also be implemented outside the designated planning areas.

5. Details of the Proposed Scheme

The proposed land, measuring 0.65 acres (approximately 28,164 square feet), is located in Kodobhatapara, Chandni Chowk, Jagdalpur - situated on the main road leading to the Collector's office, in the densely populated central area of the city.

As per the details, on the 0.65-acre (approximately 28,164 square feet) land (Khasra No. 14/7), there currently exists a dilapidated tin-shed structure that houses a Municipal Corporation School, PHB office, and an Old Age Home operations office.

Construction work on a land parcel of approximately 20,000 will be carried out for 48 units of 1 BHK G+2 flats at revenue campus, Jagdalpur in front of Danteshwari Girls college as part of the redevelopment plan.

6. Physical Overview



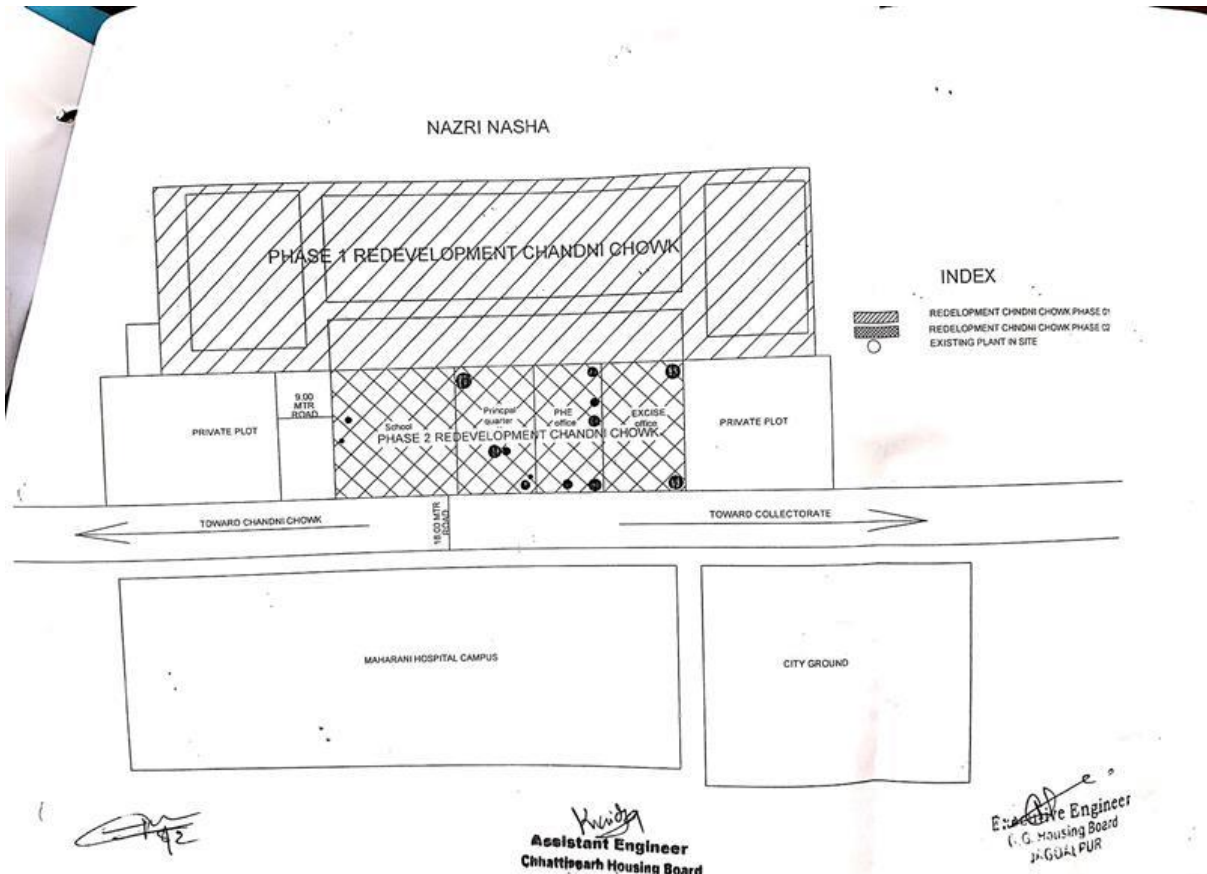
CHANDNI CHOWK PHASE-II REDEVELOPMENT SITE LOCATION

6.1 (a) Site Description:

Under the scheme, 0.65 acres (approx. 28,164 sq. ft.) of land located at kodobhatapara, Chandni Chowk, currently houses dilapidated tin-shed structures, including a Municipal Corporation School, PHB Office, and Old Age Home Operations Office (Khasra No. 14/7). These unused, deteriorated structures have been selected for redevelopment.

6.2 Land Selection:

The land has been allotted by the Collector, Bastar District, from Khasra No. 14/7, located in Kodohatapara, Chandni Chowk, Jagdalpur, covering an area of 0.65 acres (28,164 sq. ft.).



NAZRI NAKSHA – CHANDNI CHOWK REDEVELOPMENT SITE

6.3 Land Value:

As per the guideline rate by the Collector, Bastar District, the land at Khasra No. 14/7 in Kodohatapara, Chandni Chowk, Jagdalpur, is valued at ₹4.33 crore.

6.4 Land Utilization:

The land has been reclassified by the Town & Country Planning Department, Jagdalpur, for the implementation of the redevelopment plan, changing its usage to residential and commercial purposes.

6.5 Approval from District-Level Committee:

The 0.65-acre land located in Kodobhatapara, Chandni Chowk, Jagdalpur, is proposed for redevelopment under the project.

6.6 Infrastructure Development:

The existing dilapidated buildings such as the Municipal School, PHB office, and Old Age Home, which have been unused for several years, will be demolished by the Housing Development Authority through a tendering process. Hence, no separate development for these is required.

6.7 Revenue Generation:

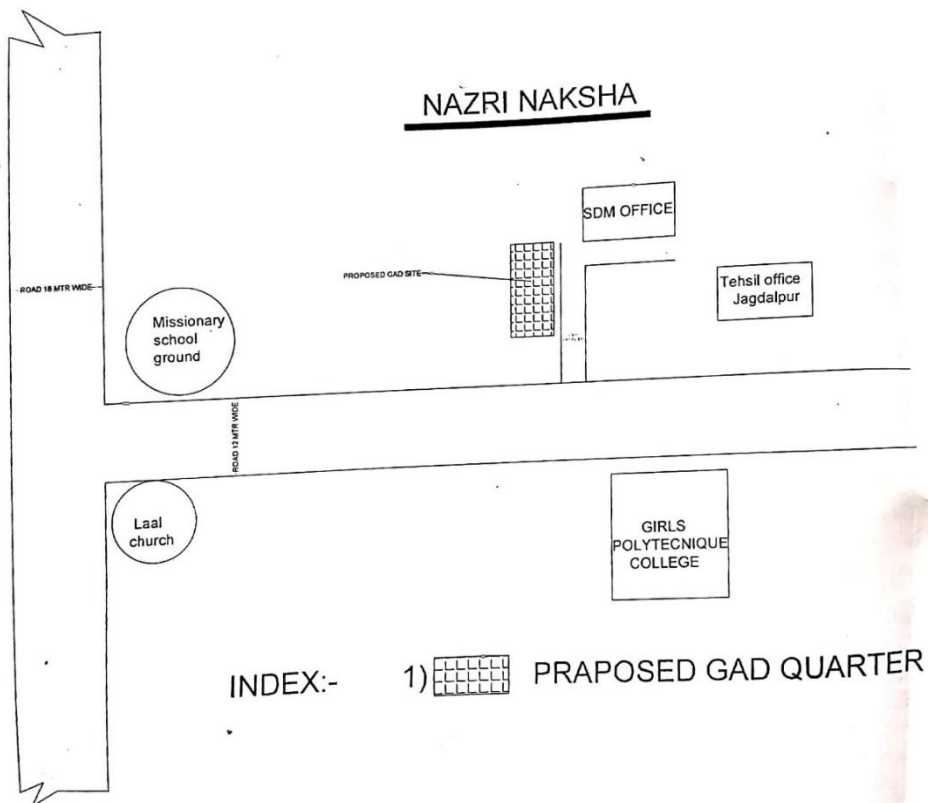
Under the PPP model, revenue generated through the implementation and sale of residential units will provide the government with annual earnings in the form of GST, stamp duty, and property tax. Additionally, the authority will receive financial proceeds as part of the determined share in the redevelopment plan. The sale of buildings will also generate revenue in the form of stamp duty, lease ledger fees, GST, royalty, mining fees, income tax, and local taxes.

6.8 Feasibility:

Implementation of the residential scheme in the central urban area will incur expenditure, but the sale will generate income, including the adjusted value of the land. Hence, the project will be financially viable with no losses. The land value will be adjusted under the redevelopment scheme, leading to government gains from Phase-1 of redevelopment in terms of city center, differential sales, and future assets.



PROPOSED SITE FOR H-TYPE GAD QUARTERS



NAZRI NAKSHA – H-Type Quarters

Architectural Drawings

7.1) NOC requirement for cutting of trees on site :- NO.

The site has 3 to 4 small trees that do not come under the proposed construction area and hence NOC to cut them is not required.

7.2) Possibility of G + 6 Construction :- NO

Considering the absence of a wide approach road in front of the site and the proximity of the Tehsil Office and SDM Office adjacent to the proposed location, the feasibility of G+6 construction appears limited. The current proposal includes G+2 building blocks, for which adequate space is available within the site.



Site Picture 1– Chandni Chowk Phase-II Redevelopment Site



Site Picture 2– Chandni Chowk Phase-II Redevelopment Site



Site Picture 3 – H-Type Quarters, Kodobhatapara, Jagdalpur

ANNEXURE 1
(Detailed Cost Estimate)

GENERAL ABSTRACT

FOR REDEVELOPMENT PHASE II "H" TYPE QUARTERS (1 BHK) FOR GAD AT REVENUE CAMPUS, JAGDALPUR, DISTT. BASTAR (C.G)					
For 48 Units					
A	Construction cost		For 01 Block (12 Unit)	Total Block to be constructed	Total Cost for 48 Unit
i)	Civil Work	Rs.	74.28	4	297.12
ii)	Cost of water supply and sanitary works	Rs.	4.77	4	19.07
iii)	Cost of internal electrification work i/c fixtures	Rs.	7.75	4	31.00
	Cost of Development				56.89
	Total A:-	Rs.			404.09
	External Electrification				24.81
	Total B :-				428.90
	CONTIGENCY 1%				4.29
				Total	433.19

MASTER ABSTRACT

FOR REDEVELOPMENT PHASE II "H" TYPE QUARTERS (1 BHK) FOR GAD AT REVENUE CAMPUS, JAGDALPUR, DISTT. BASTAR (C.G)					
A	CONSTRUCTION COST		TOTAL CHARGES (per year)	YEARS	TOTAL COST
i)	Total Cost for H - Type GAD quarters 48 units	Rs.			47390427.83
ii)	HT & LT Line Shifting Payable to CSPDCL	Rs.			1600000.00
iii)	COST OF :-(during construction and selling period) Lease Rent for 5 Years @ 129957/Year Infrastructure @ 14620.16/Year Environmental Contribution @ 14620.16/Year	Rs.	159197.32	5	795986.60
iv)	COST OF :-(for next 15 year after five year reserved for construction and selling period) Lease Rent for 15 Years @ 129957/Year Infrastructure @ 14620.16/Year Environmental Contribution @ 14620.16/Year	Rs.	159197.32	15	2387959.80
	Total :-	Rs.			52174374.23

**GENERAL ABSTRACT FOR DEVELOPMENT WORK AT AT
REDEVELOPMENT PHASE-II GAD H-TYPE,JAGDALPUR, DISTT.
BASTAR(C.G.)**

1	C.C ROAD	1331667.60
2	CAMPUS COMPOUND WALL	880991.89
3	BIODIGESTER	632426.00
4	RAIN WATER HARVESTING	199678.80
5	EXTERNAL WATER SUPPLY	336223.20
6	SEWER LINE	443123.00
7	BOREWELL	281793.00
8	SUMPWELL	271150.19
9	PUMP HOUSE	149904.50
10	DRAIN	336223.20
11	GARDEN DEVELOPMENT I/C PAVER WORK	209125.00
12	GANTARY GATE	616949.83
		5689256.21
	TOTAL	56.89

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and inequalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).	1	18.00	20.00		360.00	sqm	7.20	2592.00
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soils.								
		C1/F1	44	1.80	2.00	1.50	237.60			
		For Beam								
		PB	8	3.2	0.40	0.30	3.07			
			4	2.2	0.40	0.30	1.06			
			8	3.1	0.40	0.30	2.98			
			4	2.1	0.40	0.30	1.01			
			20	0.6	0.40	0.30	1.44			
			3	2.4	0.40	0.30	0.86			
			2	1.7	0.40	0.30	0.41			
			4	2.6	0.40	0.30	1.25			
			4	1.2	0.40	0.30	0.58			
			8	2.5	0.40	0.30	2.40			
			8	3	0.40	0.30	2.88			
			4	2.2	0.40	0.30	1.06			
			4	4.1	0.40	0.30	1.97			
			8	1.2	0.40	0.30	1.15			
			4	3.3	0.40	0.30	1.58			
			4	1.6	0.40	0.30	0.77			
			4	2.5	0.35	0.30	1.05			
			4	1.5	0.35	0.30	0.63			
						Total	263.74	cum	185.00	48791.16

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
	1.26	Carriage by mechanical transport upto 5 km lead:								
	1.26.1	Earth								
		As per Excavated Qty					263.74	cum	111.00	29274.70
4	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).								
		C1/F1	44	1.70	1.90	0.10	14.21			
		For Beam								
		PB	8	3.2	0.40	0.10	1.02			
			4	2.2	0.40	0.10	0.35			
			8	3.1	0.40	0.10	0.99			
			4	2.1	0.40	0.10	0.34			
			20	0.6	0.40	0.10	0.48			
			3	2.4	0.40	0.10	0.29			
			2	1.7	0.40	0.10	0.14			
			4	2.6	0.40	0.10	0.42			
			4	1.2	0.40	0.10	0.19			
			8	2.5	0.40	0.10	0.80			
			8	3	0.40	0.10	0.96			
			4	2.2	0.40	0.10	0.35			
			4	4.1	0.40	0.10	0.66			
			8	1.2	0.40	0.10	0.38			
			4	3.3	0.40	0.10	0.53			
			4	1.6	0.40	0.10	0.26			
			4	2.5	0.35	0.10	0.35			
			4	1.5	0.35	0.10	0.21			
		Below Floor								
		Living & dining	4	3.30	4.60	0.10	6.07			
		Bed room	4	3.80	3.00	0.10	4.56			
		Kitchen	4	2.10	2.40	0.10	2.02			
		WC & Bath	4	2.40	2.60	0.10	2.50			
		Utility	4	3.30	1.20	0.10	1.58			
		Lobby	1	5.80	2.60	0.10	1.51			
		Below staircase	1	4.80	2.40	0.10	1.15			
							42.31			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		First Floor	4	2.50	2.40	0.08	1.92			
		Second Floor	2	2.50	2.40	0.08	0.96			
		Second Floor	2	2.50	2.40	0.08	0.96			
							46.15	cum	2659.00	122718.17
5	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.								
	3.3.2	M-25 Grade								
		C1/F1	44	1.60	1.80	0.30	38.02			
		Column upto Plinth	44	0.20	0.30	1.55	4.09			
		PB	8	3.2	0.20	0.25	1.28			
			4	2.2	0.20	0.25	0.44			
			4	3.2	0.20	0.25	0.64			
			4	3.3	0.20	0.25	0.66			
			4	2.1	0.20	0.25	0.42			
			3	2.4	0.20	0.25	0.36			
			2	1.7	0.20	0.25	0.17			
			24	0.6	0.20	0.25	0.72			
			4	1.2	0.20	0.25	0.24			
			8	2.5	0.20	0.25	1.00			
			4	4.1	0.20	0.25	0.82			
			4	2.2	0.20	0.25	0.44			
			4	2.8	0.20	0.25	0.56			
			4	3	0.20	0.25	0.60			
			4	2.6	0.20	0.25	0.52			
			8	1.2	0.20	0.25	0.48			
			4	1.6	0.20	0.25	0.32			
			4	3.3	0.20	0.25	0.66			
			4	2.5	0.15	0.25	0.38			
			4	1.5	0.15	0.25	0.23			
						(A)	53.04			
		Column upto Ground Slab								
		C1	44	0.20	0.30	2.90	7.66			
		Partial lintel beam								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
			4	1.90	0.20	0.20	0.30			
			4	3.30	0.20	0.20	0.53			
			4	2.10	0.20	0.20	0.34			
			4	3.10	0.20	0.20	0.50			
			4	3.00	0.20	0.20	0.48			
			4	2.50	0.20	0.20	0.40			
			4	2.50	0.10	0.20	0.20			
			4	1.60	0.20	0.20	0.26			
			1	2.40	0.20	0.20	0.10			
			2	2.60	0.20	0.20	0.21			
		Slab Beam								
		B1	8	3.2	0.20	0.30	1.54			
			4	2.2	0.20	0.30	0.53			
			4	3.2	0.20	0.30	0.77			
			4	3.3	0.20	0.30	0.79			
			4	2.1	0.20	0.30	0.50			
			3	2.4	0.20	0.30	0.43			
			2	1.7	0.20	0.30	0.20			
			24	0.6	0.20	0.30	0.86			
			4	1.2	0.20	0.30	0.29			
			8	2.5	0.20	0.30	1.20			
			4	4.1	0.20	0.30	0.98			
			4	2.2	0.20	0.30	0.53			
			4	2.8	0.20	0.30	0.67			
			4	3	0.20	0.30	0.72			
			4	2.6	0.20	0.30	0.62			
			8	1.2	0.20	0.30	0.58			
			4	1.6	0.20	0.30	0.38			
			4	3.3	0.20	0.30	0.79			
			4	2.5	0.15	0.30	0.45			
			4	1.5	0.15	0.30	0.27			
		Slab								
		Living & dining	4	3.30	4.60	0.100	6.07			
		Kitchen	4	2.10	2.40	0.100	2.02			
		Bed room	4	3.30	3.00	0.100	3.96			
		Almirah	4	1.60	0.60	0.100	0.38			
		WC & bath	4	2.40	2.50	0.100	2.40			
		Utility	4	3.30	1.00	0.100	1.32			
		Common lobby	1	5.80	2.60	0.100	1.51			
		Staircase W/slab	2	2.85	1.20	0.100	0.68			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Midlanding	1	2.40	1.30	0.100	0.31			
		Steps	20	1.30	0.15	0.15	0.59			
		Landing	1	2.60	0.80	0.100	0.21			
		Chhajja	4	1.20	0.60	0.075	0.22			
			4	2.80	0.60	0.075	0.50			
			4	1.20	0.60	0.075	0.22			
			4	2.50	0.60	0.075	0.45			
			4	1.00	0.60	0.075	0.18			
			1	2.40	0.60	0.075	0.11			
			2	2.60	0.60	0.075	0.23			
		Kitchen platform	4	2.40	0.60	0.075	0.43			
		Window sill								
		Staircase	1	1.50	0.20	0.05	0.02			
		Living	4	1.00	0.20	0.05	0.04			
			4	1.20	0.20	0.05	0.05			
		Bedroom	8	1.20	0.20	0.05	0.10			
		Kitchen	4	0.80	0.20	0.05	0.03			
		ventilator	8	0.60	0.20	0.05	0.05			
						(B)	46.14			
		First Floor								
		C1	44	0.20	0.30	2.90	7.66			
		Partial lintel beam								
			4	1.90	0.20	0.20	0.30			
			4	3.30	0.20	0.20	0.53			
			4	2.10	0.20	0.20	0.34			
			4	3.10	0.20	0.20	0.50			
			4	3.00	0.20	0.20	0.48			
			4	2.50	0.20	0.20	0.40			
			4	2.50	0.10	0.20	0.20			
			4	1.60	0.20	0.20	0.26			
			1	2.40	0.20	0.20	0.10			
			2	2.60	0.30	0.20	0.31			
		Slab Beam								
		B1	8	3.2	0.20	0.30	1.54			
			4	2.2	0.20	0.30	0.53			
			4	3.2	0.20	0.30	0.77			
			4	3.3	0.20	0.30	0.79			
			4	2.1	0.20	0.30	0.50			
			3	2.4	0.20	0.30	0.43			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
			2	1.7	0.20	0.30	0.20			
			24	0.6	0.20	0.30	0.86			
			4	1.2	0.20	0.30	0.29			
			8	2.5	0.20	0.30	1.20			
			4	4.1	0.20	0.30	0.98			
			4	2.2	0.20	0.30	0.53			
			4	2.8	0.20	0.30	0.67			
			4	3	0.20	0.30	0.72			
			4	2.6	0.20	0.30	0.62			
			8	1.2	0.20	0.30	0.58			
			4	1.6	0.20	0.30	0.38			
			4	3.3	0.20	0.30	0.79			
			4	2.5	0.15	0.30	0.45			
			4	1.5	0.15	0.30	0.27			
		Slab								
		Living & dining	4	3.30	4.60	0.100	6.07			
		Kitchen	4	2.10	2.40	0.100	2.02			
		Bed room	4	3.30	3.00	0.100	3.96			
		Almirah	4	1.60	0.60	0.100	0.38			
		WC & bath	4	2.40	2.50	0.100	2.40			
		Utility	4	3.30	1.00	0.100	1.32			
		Common lobby	1	5.80	2.60	0.100	1.51			
		Staircase W/slab	2	2.85	1.20	0.100	0.68			
		Midlanding	1	2.40	1.30	0.100	0.31			
		Steps	20	1.30	0.15	0.15	0.59			
		Landing	1	2.60	0.80	0.100	0.21			
		Chhajja	4	1.20	0.60	0.08	0.22			
			4	2.80	0.60	0.08	0.50			
			4	1.20	0.60	0.08	0.22			
			4	2.50	0.60	0.08	0.45			
			4	1.00	0.60	0.08	0.18			
			1	2.40	0.60	0.08	0.11			
			2	2.60	0.60	0.08	0.23			
		Kitchen platform	4	2.40	0.60	0.08	0.43			
		Window sill								
		Staircase	1	1.50	0.20	0.05	0.02			
		Living	4	1.00	0.20	0.05	0.04			
			4	1.20	0.20	0.05	0.05			
		Bedroom	8	1.20	0.20	0.05	0.10			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Kitchen	4	0.80	0.20	0.05	0.03			
		ventilator	8	0.60	0.20	0.05	0.05			
						(C)	46.25			
		Second Floor								
		C1	44	0.20	0.30	2.90	7.66			
		Partial lintel beam								
			4	1.90	0.20	0.20	0.30			
			4	3.30	0.20	0.20	0.53			
			4	2.10	0.20	0.20	0.34			
			4	3.10	0.20	0.20	0.50			
			4	3.00	0.20	0.20	0.48			
			4	2.50	0.20	0.20	0.40			
			4	2.50	0.10	0.20	0.20			
			4	1.60	0.20	0.20	0.26			
			1	2.40	0.20	0.20	0.10			
			2	2.60	0.30	0.20	0.31			
		Slab Beam								
		B1	8	3.2	0.20	0.30	1.54			
			4	2.2	0.20	0.30	0.53			
			4	3.2	0.20	0.30	0.77			
			4	3.3	0.20	0.30	0.79			
			4	2.1	0.20	0.30	0.50			
			3	2.4	0.20	0.30	0.43			
			2	1.7	0.20	0.30	0.20			
			24	0.6	0.20	0.30	0.86			
			4	1.2	0.20	0.30	0.29			
			8	2.5	0.20	0.30	1.20			
			4	4.1	0.20	0.30	0.98			
			4	2.2	0.20	0.30	0.53			
			4	2.8	0.20	0.30	0.67			
			4	3	0.20	0.30	0.72			
			4	2.6	0.20	0.30	0.62			
			8	1.2	0.20	0.30	0.58			
			4	1.6	0.20	0.30	0.38			
			4	3.3	0.20	0.30	0.79			
			4	2.5	0.15	0.30	0.45			
			4	1.5	0.15	0.30	0.27			
		Slab								
		Living & dining	4	3.30	4.60	0.100	6.07			
		Kitchen	4	2.10	2.40	0.100	2.02			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Bed room	4	3.30	3.00	0.100	3.96			
		Almirah	4	1.60	0.60	0.100	0.38			
		WC & bath	4	2.40	2.50	0.100	2.40			
		Utility	4	3.30	1.00	0.100	1.32			
		Common lobby	1	5.80	2.60	0.100	1.51			
		Staircase W/slab	2	2.85	1.20	0.100	0.68			
		Midlanding	1	2.40	1.30	0.100	0.31			
		Steps	20	1.30	0.15	0.15	0.59			
		Landing	1	2.60	0.80	0.100	0.21			
		Chhajja	4	1.20	0.60	0.08	0.22			
			4	2.80	0.60	0.08	0.50			
			4	1.20	0.60	0.08	0.22			
			4	2.50	0.60	0.08	0.45			
			4	1.00	0.60	0.08	0.18			
			1	2.40	0.60	0.08	0.11			
			2	2.60	0.60	0.08	0.23			
		Kitchen platform	4	2.40	0.60	0.08	0.43			
		Window sill								
		Staircase	1	1.50	0.20	0.05	0.02			
		Living	4	1.00	0.20	0.05	0.04			
			4	1.20	0.20	0.05	0.05			
		Bedroom	8	1.20	0.20	0.05	0.10			
		Kitchen	4	0.80	0.20	0.05	0.03			
		ventilator	8	0.60	0.20	0.05	0.05			
						(C)	46.25			
		Terrace Floor								
		For Tower + Water Tank	6	0.20	0.30	4.00	1.44			
		Terrace	38	0.20	0.30	0.90	2.05			
		Tower Beam	2	2.40	0.20	0.30	0.29			
			2	4.60	0.20	0.30	0.55			
		RCC Wall	2	2.40	0.20	1.50	1.44			
			2	4.10	0.20	1.50	2.46			
		Tower slab & top water tank slab	2	2.40	4.60	0.100	2.21			
						(d)	10.44			
					(A to E)		155.87	cum	4298.00	669929.26

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
6	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Ground Floor								
		Rcc work above plinth					46.14	cum	97.50	4499.04
		First Floor								
		PCC					1.92			
		RCC					46.25			
							48.17	cum	195.00	9392.76
		Second Floor								
		PCC					1.92			
		RCC					46.25			
							48.17	cum	292.50	14089.14
		Terrace Floor								
		RCC					10.44	cum	390.00	4071.60
7	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
a)	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		PCC work								
		C1/F1	44	7.20		0.10	31.68			
		For Beam								
		PB	16	3.20		0.10	5.12			
			8	2.20		0.10	1.76			
			16	3.10		0.10	4.96			
			8	2.10		0.10	1.68			
			40	0.60		0.10	2.40			
			6	2.40		0.10	1.44			
			4	1.70		0.10	0.68			
			8	2.60		0.10	2.08			
			8	1.20		0.10	0.96			
			16	2.50		0.10	4.00			
			16	3.00		0.10	4.80			
			8	2.20		0.10	1.76			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
			8	4.10		0.10	3.28			
			16	1.20		0.10	1.92			
			8	3.30		0.10	2.64			
			8	1.60		0.10	1.28			
			8	2.50		0.10	2.00			
			8	1.50		0.10	1.20			
		RCC work								
		C1/F1	44	6.80		0.30	89.76			
		PB	16	3.20		0.25	12.80			
			8	2.20		0.25	4.40			
			8	3.20		0.25	6.40			
			8	3.30		0.25	6.60			
			8	2.10		0.25	4.20			
			6	2.40		0.25	3.60			
			4	1.70		0.25	1.70			
			48	0.60		0.25	7.20			
			8	1.20		0.25	2.40			
			16	2.50		0.25	10.00			
			8	4.10		0.25	8.20			
			8	2.20		0.25	4.40			
			8	2.80		0.25	5.60			
			8	3.00		0.25	6.00			
			8	2.60		0.25	5.20			
			16	1.20		0.25	4.80			
			8	1.60		0.25	3.20			
			8	3.30		0.25	6.60			
			8	2.50		0.25	5.00			
			8	1.50		0.25	3.00			
							276.70	sqm	139.00	38461.30
b)	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		Column upto Plinth	44	1.00		1.55	68.20			
		Column upto Ground Slab								
		C1	44	1.00		2.90	127.60			
		First Floor								
		C1	44	1.00		2.90	127.60			
		Second Floor								
		C1	44	1.00		2.90	127.60			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Terrace Floor								
		For Tower + Water Tank	6.0	1.00		4.00	24.00			
		Terrace	38.0	1.00		0.90	34.20			
							509.20	sqm	297.00	151232.40
c)	2.1.8	Beams, lintels, cantilevers & walls								
		Ground Floor								
		Partial lintel beam								
			4	1.90		0.60	4.56			
			4	3.30		0.60	7.92			
			4	2.10		0.60	5.04			
			4	3.10		0.60	7.44			
			4	3.00		0.60	7.20			
			4	2.50		0.60	6.00			
			4	2.50		0.50	5.00			
			4	1.60		0.60	3.84			
			1	2.40		0.60	1.44			
			2	2.60		0.60	3.12			
		Slab Beam								
			8	3.20		0.80	20.48			
			4	2.20		0.80	7.04			
			4	3.20		0.80	10.24			
			4	3.30		0.80	10.56			
			4	2.10		0.80	6.72			
			3	2.40		0.80	5.76			
			2	1.70		0.80	2.72			
			24	0.60		0.80	11.52			
			4	1.20		0.80	3.84			
			8	2.50		0.80	16.00			
			4	4.10		0.80	13.12			
			4	2.20		0.80	7.04			
			4	2.80		0.80	8.96			
			4	3.00		0.80	9.60			
			4	2.60		0.80	8.32			
			8	1.20		0.80	7.68			
			4	1.60		0.80	5.12			
			4	3.30		0.80	10.56			
			4	2.50		0.75	7.50			
			4	1.50		0.75	4.50			
		Window sill								
		Staircase	2	1.50		0.05	0.15			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Living	8	1.00		0.05	0.40			
			8	1.20		0.05	0.48			
		Bedroom	16	1.20		0.05	0.96			
		Kitchen	8	0.80		0.05	0.32			
		ventilator	16	0.60		0.05	0.48			
		First Floor								
		Partial lintel beam								
			4	1.90		0.60	4.56			
			4	3.30		0.60	7.92			
			4	2.10		0.60	5.04			
			4	3.10		0.60	7.44			
			4	3.00		0.60	7.20			
			4	2.50		0.60	6.00			
			4	2.50		0.50	5.00			
			4	1.60		0.60	3.84			
			1	2.40		0.60	1.44			
			2	2.60		0.70	3.64			
		Slab Beam								
		B1	8	3.20		0.80	20.48			
			4	2.20		0.80	7.04			
			4	3.20		0.80	10.24			
			4	3.30		0.80	10.56			
			4	2.10		0.80	6.72			
			3	2.40		0.80	5.76			
			2	1.70		0.80	2.72			
			24	0.60		0.80	11.52			
			4	1.20		0.80	3.84			
			8	2.50		0.80	16.00			
			4	4.10		0.80	13.12			
			4	2.20		0.80	7.04			
			4	2.80		0.80	8.96			
			4	3.00		0.80	9.60			
			4	2.60		0.80	8.32			
			8	1.20		0.80	7.68			
			4	1.60		0.80	5.12			
			4	3.30		0.80	10.56			
			4	2.50		0.75	7.50			
			4	1.50		0.75	4.50			
		Window sill								
		Staircase	2	1.50		0.05	0.15			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Living	8	1.00		0.05	0.40			
			8	1.20		0.05	0.48			
		Bedroom	16	1.20		0.05	0.96			
		Kitchen	8	0.80		0.05	0.32			
		ventilator	16	0.60		0.05	0.48			
		Second Floor								
		Partial lintel beam								
			4	1.90		0.60	4.56			
			4	3.30		0.60	7.92			
			4	2.10		0.60	5.04			
			4	3.10		0.60	7.44			
			4	3.00		0.60	7.20			
			4	2.50		0.60	6.00			
			4	2.50		0.50	5.00			
			4	1.60		0.60	3.84			
			1	2.40		0.60	1.44			
			2	2.60		0.70	3.64			
		Slab Beam								
		B1	8	3.20		0.80	20.48			
			4	2.20		0.80	7.04			
			4	3.20		0.80	10.24			
			4	3.30		0.80	10.56			
			4	2.10		0.80	6.72			
			3	2.40		0.80	5.76			
			2	1.70		0.80	2.72			
			24	0.60		0.80	11.52			
			4	1.20		0.80	3.84			
			8	2.50		0.80	16.00			
			4	4.10		0.80	13.12			
			4	2.20		0.80	7.04			
			4	2.80		0.80	8.96			
			4	3.00		0.80	9.60			
			4	2.60		0.80	8.32			
			8	1.20		0.80	7.68			
			4	1.60		0.80	5.12			
			4	3.30		0.80	10.56			
			4	2.50		0.75	7.50			
			4	1.50		0.75	4.50			
		Window sill								
		Staircase	2	1.50		0.05	0.15			
		Living	8	1.00		0.05	0.40			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
			8	1.20		0.05	0.48			
		Bedroom	16	1.20		0.05	0.96			
		Kitchen	8	0.80		0.05	0.32			
		ventilator	16	0.60		0.05	0.48			
		Terrace Floor								
		Tower Beam	4	2.40		0.80	7.68			
			4	4.60		0.80	14.72			
						Total	718.33	sqm	202.00	145102.66
d)	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		Ground Floor								
		Living & dining	4	3.30	4.60		60.72			
		Kitchen	4	2.10	2.40		20.16			
		Bed room	4	3.30	3.00		39.60			
		Almirah	4	1.60	0.60		3.84			
		WC & bath	4	2.40	2.50		24.00			
		Utility	4	3.30	1.00		13.20			
		Common lobby	1	5.80	2.60		15.08			
		Kitchen platform	4	2.40	0.60		5.76			
		First Floor								
		Living & dining	4	3.30	4.60		60.72			
		Kitchen	4	2.10	2.40		20.16			
		Bed room	4	3.30	3.00		39.60			
		Almirah	4	1.60	0.60		3.84			
		WC & bath	4	2.40	2.50		24.00			
		Utility	4	3.30	1.00		13.20			
		Common lobby	1	5.80	2.60		15.08			
		Kitchen platform	4	2.40	0.60		5.76			
		Second Floor								
		Living & dining	4	3.3	4.6		60.72			
		Kitchen	4	2.10	2.40		20.16			
		Bed room	4	3.30	3.00		39.6			
		Almirah	4	1.60	0.60		3.84			
		WC & bath	4	2.40	2.50		24			
		Utility	4	3.30	1.00		13.2			
		Common lobby	1	5.80	2.60		15.08			
		Kitchen platform	4	2.40	0.60		5.76			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Terrace Floor								
		Tower slab & top water tank slab	4	2.40	4.60		44.16			
							591.24	sqm	235.00	138941.40
e)	2.1.13	Weather shade, chhajja, Cornices and mouldings								
		Ground Floor								
		Chhajja	4	1.20	0.68		3.24			
			4	2.80	0.68		7.56			
			4	1.20	0.68		3.24			
			4	2.50	0.68		6.75			
			4	1.00	0.68		2.70			
			1	2.40	0.68		1.62			
			2	2.60	0.68		3.51			
		First Floor								
		Chhajja	4	1.20	0.68		3.24			
			4	2.80	0.68		7.56			
			4	1.20	0.68		3.24			
			4	2.50	0.68		6.75			
			4	1.00	0.68		2.70			
			1	2.40	0.68		1.62			
			2	2.60	0.68		3.51			
		Second Floor								
		CHHAJJA	4	1.20	0.68		3.26			
			4	2.80	0.68		7.62			
			4	1.20	0.68		3.26			
			4	2.50	0.68		6.80			
			4	1.00	0.68		2.72			
			1	2.40	0.68		1.63			
			2	2.60	0.68		3.54			
							57.24	sqm	294.00	16828.56
f)	2.1.15	Stair cases of all types excluding spiral and folded plate type, including risers and landings								
		Ground Floor								
		Staircase W/slab	2	2.85	1.20		6.84			
		Midlanding	1	2.40	1.30		3.12			
		Sides	2	2.85	0.30		1.71			
		Landing	1	2.60	0.80		2.08			

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		First Floor								
		Staircase W/slab	2	2.85	1.20		6.84			
		Midlanding	1	2.40	1.30		3.12			
		Sides	2	2.85	0.30		1.71			
		Landing	1	2.60	0.80		2.08			
		Second floor								
		Staircase W/slab	2	2.85	1.20		6.84			
		Midlanding	1	2.40	1.30		3.12			
		Sides	2	2.85	0.30		1.71			
		Landing	1	2.60	0.80		2.08			
							41.25	sqm	230.00	9487.50
g)	2.1.2	Wall of any thickness including attached pilasters, buttresses etc. in super structure.								
		RCC Wall	4	2.40		1.50	14.40			
			4	4.10		1.50	24.60			
							39.00	sqm	228.00	8892.00
8		Extra for providing fixing and removing of propping from lower floor upwards for the concreting. Propping should be provided two floors below. The props of lower floor must be 50% of the props of the floor above including wedging etc. complete. In case propping is done in one floor below, only half the rate shall be paid.								
		As per Slab Area	3	170.00		0.50	255.00	sqm	17.00	4335.00
8	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
	3.12.1	Thermo-Mechanically treated bars FE 415 (Make:- Tata / Sail / Goel /Jindal /Gk or Equivalent)								
		Qty. of R.C.C. M 20	155.87		110.00		17145.70	Kg	54.50	934440.65
10	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		Below Floor								
		For Footing (Total Excavated Earth)					263.74			
		Deduct : PCC Work					-42.31			
		RCC Work upto plinth					-42.11			
		Living & dining	4	3.30	4.60	0.80	48.58			
		Bed room	4	3.80	3.00	0.80	36.48			
		Kitchen	4	2.10	2.40	0.80	16.13			
		WC & Bath	4	2.40	2.60	0.80	19.97			
		Utility	4	3.30	1.20	0.80	12.67			
		Lobby	1	5.80	2.60	0.80	12.06			
		Below staircase	1	4.80	2.40	0.80	9.22			
							334.42	Cum	371.00	124069.82
11	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.	1	224.00	0.20	0.05	2.24	cum	4237.00	9490.88
12	1.25	Diluting chemical emulsion (chlorpyrifos/ lindane) in water as per manufacturers recommendation and injecting for pre-constructional curative cum preventive anti-termite treatment:(Five year service guarantee bond to be signed by contractor) Surface treatment by spreading emulsion under floor, over the plinth area								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
	1.25.1	before laying base concrete @ 5 litres / sqm								
		Plinth Area	1	200.00	1.00		200.00	Sqm	27.50	5500.00
13	1.22	Supplying chlorpyrifos/ Lindane emulsifiable concentrate of 20% in sealed containers including delivery as specified.	200				200.00	Ltr	208.00	41600.00
14	3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.	1	124.00	1.20		148.80	sqm	273.00	40622.40
15	1.25.2	Treatment of inside of plinth masonry wall on using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall below plinth protection at the interval of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).					124.00	metre	19.00	2356.00
16	1.25.3	Treatment of outer side of plinth masonry wall using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall at the junction of floor at the interval of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).					124.00	metre	13.50	1674.00
17	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.3	Cement Mortar 1:5 (1 cement : 5 coarse sand)								
		Below Beam	8	3.2	0.20	0.15	0.77			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
			4	2.2	0.20	0.15	0.26			
			4	3.2	0.20	0.15	0.38			
			4	3.3	0.20	0.15	0.40			
			4	2.1	0.20	0.15	0.25			
			3	2.4	0.20	0.15	0.22			
			2	1.7	0.20	0.15	0.10			
			24	0.6	0.20	0.15	0.43			
			4	1.2	0.20	0.15	0.14			
			8	2.5	0.20	0.15	0.60			
			4	4.1	0.20	0.15	0.49			
			4	2.2	0.20	0.15	0.26			
			4	2.8	0.20	0.15	0.34			
			4	3	0.20	0.15	0.36			
			4	2.6	0.20	0.15	0.31			
			8	1.2	0.20	0.15	0.29			
			4	1.6	0.20	0.15	0.19			
			4	3.3	0.20	0.15	0.40			
			4	2.5	0.15	0.15	0.23			
			4	1.5	0.15	0.15	0.14			
							6.56	cum	3,350.00	21969.30
18	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		Ground Floor								
		Living & dining	4	4.10	0.20	2.60	8.53			
			4	1.20	0.20	2.60	2.50			
			4	1.00	0.20	2.60	2.08			
			4	0.60	0.20	2.60	1.25			
		WC & Bath	4	2.50	0.20	2.60	5.20			
			4	2.20	0.20	2.60	4.58			
		Bed room	4	4.00	0.20	2.60	8.32			
			4	1.60	0.20	2.60	3.33			
			4	0.80	0.20	2.60	1.66			
			4	1.20	0.20	2.60	2.50			
			4	1.30	0.20	2.60	2.70			
		Kitchen	4	2.10	0.20	2.60	4.37			
		Common Lobby	2	2.60	0.20	2.60	2.70			

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
			2	1.70	0.20	2.60	1.77			
		Balcony	4	3.60	0.20	2.60	7.49			
						(A)	58.97	cum		
		Deduct : Opening	4	1.10	0.20	2.10	1.85			
			4	0.75	0.20	2.10	1.26			
		Staircase	1	1.50	0.20	1.20	0.36			
		Living	4	1.00	0.20	1.20	0.96			
			4	1.20	0.20	1.20	1.15			
		Bedroom	8	1.20	0.20	1.20	2.30			
		Kitchen	4	0.80	0.20	1.05	0.67			
		ventilator	8	0.60	0.20	0.45	0.43			
		Lobby	4	1.20	0.20	1.20	1.15			
						(B)	10.14	cum		
		Ground Floor				(A-B)	48.83	cum		
		First Floor								
		Living & dining	4	4.10	0.20	2.60	8.53			
			4	1.20	0.20	2.60	2.50			
			4	1.00	0.20	2.60	2.08			
			4	0.60	0.20	2.60	1.25			
		WC & Bath	4	2.50	0.20	2.60	5.20			
			4	2.20	0.20	2.60	4.58			
		Bed room	4	4.00	0.20	2.60	8.32			
			4	1.60	0.20	2.60	3.33			
			4	0.80	0.20	2.60	1.66			
			4	1.20	0.20	2.60	2.50			
			4	1.30	0.20	2.60	2.70			
		Kitchen	4	2.10	0.20	2.60	4.37			
		Common Lobby	2	2.60	0.20	2.60	2.70			
			2	1.70	0.20	2.60	1.77			
		Balcony	4	3.60	0.20	2.60	7.49			
						(A)	58.97	cum		
		Deduct : Opening	4	1.10	0.20	2.10	1.85			
			4	0.75	0.20	2.10	1.26			
		Staircase	1	1.50	0.20	1.20	0.36			
		Living	4	1.00	0.20	1.20	0.96			
			4	1.20	0.20	1.20	1.15			
		Bedroom	8	1.20	0.20	1.20	2.30			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Kitchen	4	0.80	0.20	1.05	0.67			
		ventilator	8	0.60	0.20	0.45	0.43			
		Lobby	4	1.20	0.20	1.20	1.15			
						(B)	10.14	cum		
		First Floor				(A-B)	48.83	cum		
		Second Floor								
		Living & dining	4	4.10	0.20	2.60	8.53			
			4	1.20	0.20	2.60	2.50			
			4	1.00	0.20	2.60	2.08			
			4	0.60	0.20	2.60	1.25			
		WC & Bath	4	2.50	0.20	2.60	5.20			
			4	2.20	0.20	2.60	4.58			
		Bed room	4	4.00	0.20	2.60	8.32			
			4	1.60	0.20	2.60	3.33			
			4	0.80	0.20	2.60	1.66			
			4	1.20	0.20	2.60	2.50			
			4	1.30	0.20	2.60	2.70			
		Kitchen	4	2.10	0.20	2.60	4.37			
		Common Lobby	2	2.60	0.20	2.60	2.70			
			2	1.70	0.20	2.60	1.77			
		Balcony	4	3.60	0.20	2.60	7.49			
						(A)	58.97	cum		
		Deduct : Opening	4	1.10	0.20	2.10	1.85			
			4	0.75	0.20	2.10	1.26			
		Staircase	1	1.50	0.20	1.20	0.36			
		Living	4	1.00	0.20	1.20	0.96			
			4	1.20	0.20	1.20	1.15			
		Bedroom	8	1.20	0.20	1.20	2.30			
		Kitchen	4	0.80	0.20	1.05	0.67			
		ventilator	8	0.60	0.20	0.45	0.43			
		Lobby	4	1.20	0.20	1.20	1.15			
						(B)	10.14	cum		
		SECOND FLOOR				(A-B)	48.83	cum		
		Terrace Floor								
		Tower wall	2	2.40	0.20	2.10	2.02			
			2	4.60	0.20	2.10	3.86			
		Parapet wall	2	62.80	0.20	0.90	22.61			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Deduct : Opening	-1	1.10	0.20	2.10	-0.46			
							28.03	cum		
							174.51	cum	3263.00	569426.13
19	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Ground floor					48.83	cum	121.00	5908.19
		First Floor					48.83	cum	242.00	11816.38
		Second Floor					48.83	cum	363.00	17724.56
		Terrace Floor					28.03	cum	484.00	13564.58
20	7.11	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level:								
	7.11.4	Cement Mortar 1:4 (1 cement : 4 coarse sand)								
		Ground Floor								
		10 cm wall	4	2.20		2.60	22.88			
			4	2.80		2.60	29.12			
			4	2.30		2.60	23.92			
			4	2.40		2.60	24.96			
			4	2.60		2.60	27.04			
			4	1.50		2.60	15.60			
		Balcony	4	2.10		0.90	7.56			
						(A)	151.08			
		Deduct : Opening	4	0.90		2.10	7.56			
			8	0.75		2.10	12.60			
		Without door	4	0.90		2.10	7.56			
						(B)	27.72			
		Ground Floor				(A-B)	123.36	sqm		
		First Floor								
		10 cm wall	4	2.20		2.60	22.88			
			4	2.80		2.60	29.12			
			4	2.30		2.60	23.92			
			4	2.40		2.60	24.96			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
			4	2.60		2.60	27.04			
			4	1.50		2.60	15.60			
		Balcony	4	2.10		0.90	7.56			
						(A)	151.08			
		Deduct : Opening	4	0.90		2.10	7.56			
			8	0.75		2.10	12.60			
		Without door	4	0.90		2.10	7.56			
						(B)	27.72			
		First Floor				(A-B)	123.36	sqm		
		Second Floor								
		10 cm wall	4	2.20		2.60	22.88			
			4	2.80		2.60	29.12			
			4	2.30		2.60	23.92			
			4	2.40		2.60	24.96			
			4	2.60		2.60	27.04			
			4	1.50		2.60	15.60			
		Balcony	4	2.10		0.90	7.56			
						(A)	151.08			
		Deduct : Opening	4	0.90		2.10	7.56			
			8	0.75		2.10	12.60			
		Without door	4	0.90		2.10	7.56			
						(B)	27.72			
		Second Floor				(A-B)	123.36	sqm		
							370.08	sqm	382.00	141370.56
21	7.12	Extra for half brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level:								
		Ground Floor					123.36	sqm	11.00	1356.96
		First Floor					123.36	sqm	22.00	2713.92
		Second Floor					123.36	sqm	33.00	4070.88

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
22	7.20	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.					370.08	sqm	62.50	23130.00
23	8.1	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position.								
	8.1.1	Teak wood								
		Ground to Terrace								
		Main Door (Double Rebated)	15	5.30	0.127	0.064	0.65			
			12	5.10	0.127	0.064	0.50			
			36	4.95	0.127	0.064	1.45			
							2.59	cum	114758.00	297454.94
24	8.7	Providing and fixing 35mm thick paneled or glazed or paneled and glazed shutter frames for doors excluding hinges and paneling. (Area of shutter to be measured without deducting paneling area)								
	8.7.1	Teak wood								
			15	1.10		2.10	34.65			
			12	0.90		2.10	22.68			
							57.33	sqm	2620.00	150204.60
	8.8	Providing and fixing 30mm thick paneled or glazed or paneled and glazed shutter frames for doors excluding hinges and paneling. (Area of shutter to be measured without deducting paneling area)								
	8.8.1	Teak wood								
		Toilet Door	36	0.75		2.10	56.70			
							56.70	sqm	2256.00	127915.20

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
25	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
		Staircase	4	1.50	25.00	1.20	180.00			
		Living	12	1.00	25.00	1.20	360.00			
			12	1.20	25.00	1.20	432.00			
		Bedroom	24	1.20	25.00	1.20	864.00			
		Kitchen	12	0.80	25.00	1.05	252.00			
		ventilator	24	0.60	25.00	0.45	162.00			
		Lobby	12	1.20	25.00	1.20	432.00			
		Grill Gate Main entrance	1	2.40	25.00	2.80	168.00			
		25kg/sqm					2850.00	Kg	67.50	192375.00
26	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately;) Make - Hindalco / Nalco or equivalent								
	9.47.1	For fixed portion								
		Staircase	3	1.50	5.00	1.20	27.00			
		Living	12	1.00	5.00	1.20	72.00			
			12	1.20	5.00	1.20	86.40			
		Bedroom	24	1.20	5.00	1.20	172.80			
		Kitchen	12	0.80	5.00	1.05	50.40			

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S. No	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		ventilator	24	0.60	5.00	0.45	32.40			
		Lobby	12	1.20	5.00	1.20	86.40			
		5kg/sqm					527.40	Kg	331.00	174569.40
27	9.47.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).					527.40	kg	338.00	178261.20
28	9.48	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.					1054.80	kg	27.00	28479.60
29	9.51	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):								
	9.51.1	With float glass panes of 4 mm thickness								
		Staircase	4	1.50		1.20	7.20			
		Living	12	1.00		1.20	14.40			
			12	1.20		1.20	17.28			
		Bedroom	24	1.20		1.20	34.56			
		Kitchen	12	0.80		1.05	10.08			
		ventilator	24	0.60		0.45	6.48			
		Lobby	12	1.20		1.20	17.28			
							107.28	sqm	611.00	65548.08
30	9.34	Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.								
		main door	15	1.20	0.50	2.100	18.90			
		Staircase	4	1.50	0.50	1.20	3.60			
		Living	12	1.00	0.50	1.20	7.20			
			12	1.20	0.50	1.20	8.64			
		Bedroom	24	1.20	0.50	1.20	17.28			
		Kitchen	12	0.80	0.50	1.05	5.04			
		ventilator	24	0.60	0.50	0.45	3.24			

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Lobby	12	1.20	0.50	1.20	8.64			
							72.54	sqm	791.00	57379.14
31	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.	63	at	6.00		378.00	each	72.50	27405.00
32	8.79	Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete:								
	8.79.1	300x16mm	63				63.00	each	496.00	31248.00
33	8.80	Providing and fixing antique/ SS finished brass door latch with antique/ SS polished MS screw complete:								
	8.80.1	300 x16x5 mm	63				63.00	each	424.00	26712.00
34	8.81	Providing and fixing antique/ SS finished brass tower bolts (Barrel type) with antique/ SS polished MS screw complete:								
	8.81.1	250 x10 mm	39				39.00	each	297.00	11583.00
	8.81.3	150 x 10 mm	24				24.00	each	189.00	4536.00
		(Toilet door)								
35	8.84	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete:								
	8.84.1	125 mm	126				126.00	each	58.50	7371.00
36	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:								
	8.58.1	125x85x5.50 mm (Heavy Type)	189				189.00	each	245.00	46305.00

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
37	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.								
		Ground to second floor								
		Beam	2	2.00	225.00	0.30	270.00			
		Column	4	110.00	0.30	3.00	396.00			
							666.00	sqm	86.00	57276.00
	12.13	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.								
	12:13:01	Size 600x600mm								
		Ground to second floor								
		Living	12	3.30	4.60		182.16			
		Bed room	12	3.30	3.00		118.80			
		Almirah	12	1.60	0.60		11.52			
		Kitchen	12	2.10	2.40		60.48			
		Skirting								
		Living	12	15.80		0.10	18.96			
		Bed room	12	12.60		0.10	15.12			
		Almirah	12	4.40		0.10	5.28			
		Kitchen	12	9.00		0.10	10.80			
		Balcony	12	3.30	1.20		47.52			
							470.64	sqm	1151.00	541706.64

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
38	12.9	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. (Make:- RAK/ Nitco/Quitone /Kajariya /Orient or Equivalent) at any floor.								
	12.9.1	Size 300x300mm								
		Ground to second floor								
		Front of Toilet	12	2.60	0.90		28.08			
		Skirting								
		Front of Toilet	12	7.00		0.10	8.40			
		Bath	12	1.50	1.25		22.50			
		WC	12	1.50	1.25		22.50			
							81.48	sqm	692.00	56384.16
39	12.7	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall 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 matching pigment complete. (Make:- RAK/ Nitco/Quitone /Kajariya /Orient or Equivalent) at any floor.								
	12.7.1	Size upto 200x300mm								
		Ground to second floor								
		Bath	24	1.50		2.10	75.60			
			24	1.25		2.10	63.00			
		WC	24	1.50		2.10	75.60			
			24	1.25		2.10	63.00			
		Deduction	-12	0.75		2.10	-18.90			
							258.30	sqm	587.00	151622.10

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
41	13.6	15mm thick Granite work (machine cut, table rubbed & mirror polished) for kitchen platform, vanity counters, window sills and similar locations of required size laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) including joints treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.								
	13:06:01	Granite stone grey/pink								
		Ground to second floor								
		Common Lobby	4	5.80	2.60		60.32			
		Skirting	4	16.80		0.1	6.72			
							67.04	sqm	2466.00	165320.64
42	12.46	15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).								
	12.46.1	Granite stone grey/pink								
		Ground to second floor								
		Midlanding Steps	3	2.40	1.30		9.36			
			60	1.30		0.45	35.10			
		Landing	3	2.60	0.80		6.24			
							50.70	sqm	1869.00	94758.30
43	12.51	Extra for nosing in steps and treads of Kota stone slab.								
			60	1.20			72.00			
							72.00	meter	69.50	5004.00

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
44	11.1	Providing and making 6mm thick cement plaster of mix:								
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)								
		Ground Floor								
		Living & dining	4	3.30	4.60		60.72			
		Kitchen	4	2.10	2.40		20.16			
		Bed room	4	3.30	3.00		39.60			
		Almirah	4	1.60	0.60		3.84			
		WC & bath	4	2.40	2.50		24.00			
		Utility	4	3.30	1.00		13.20			
		Common lobby	1	5.80	2.60		15.08			
		Staircase W/slab	2	1.65	1.20		3.96			
		Midlanding	1	2.40	1.30		3.12			
		Steps	20	1.30	0.15		3.90			
		Landing	1	2.60	0.80		2.08			
		Chhajja	4	1.20	0.60		2.88			
			4	2.80	0.60		6.72			
			4	1.20	0.60		2.88			
			4	2.50	0.60		6.00			
			4	1.00	0.60		2.40			
			1	2.40	0.60		1.44			
			2	2.60	0.60		3.12			
		Kitchen platform	4	2.40	0.60		5.76			
		First Floor								
		Living & dining	4	3.30	4.60		60.72			
		Kitchen	4	2.10	2.40		20.16			
		Bed room	4	3.30	3.00		39.60			
		Almirah	4	1.60	0.60		3.84			
		WC & bath	4	2.40	2.50		24.00			
		Utility	4	3.30	1.00		13.20			
		Common lobby	1	5.80	2.60		15.08			
		Staircase W/slab	2	1.65	1.20		3.96			
		Midlanding	1	2.40	1.30		3.12			
		Steps	20	1.30	0.15		3.90			
		Landing	1	2.60	0.80		2.08			
		Chhajja	4	1.20	0.60		2.88			
			4	2.80	0.60		6.72			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
			4	1.20	0.60		2.88			
			4	2.50	0.60		6.00			
			4	1.00	0.60		2.40			
			1	2.40	0.60		1.44			
			2	2.60	0.60		3.12			
		Kitchen platform	4	2.40	0.60		5.76			
		Second Floor								
		Living & dining	4	3.30	4.60		60.72			
		Kitchen	4	2.10	2.40		20.16			
		Bed room	4	3.30	3.00		39.60			
		Almirah	4	1.60	0.60		3.84			
		WC & bath	4	2.40	2.50		24.00			
		Utility	4	3.30	1.00		13.20			
		Common lobby	2	5.80	2.60		30.16			
		Staircase cover	2	2.40	4.60		22.08			
		Chhajja	4	1.20	0.60		2.88			
			4	2.80	0.60		6.72			
			4	1.20	0.60		2.88			
			4	2.50	0.60		6.00			
			4	1.00	0.60		2.40			
			2	2.40	0.60		2.88			
			4	2.60	0.60		6.24			
			4	1.70	0.75		5.10			
		Kitchen platform	4	2.40	0.60		5.76			
		Terrace Floor								
		Tower slab & O.H. Slab	2	2.40	4.60		22.08			
							718.42	sqm	87.00	62502.54
45	11.2	Providing and making 12mm thick cement plaster of mix:								
	11.2.2	In Cement Mortar 1:4 (1 cement : 4 fine sand)								
		Ground Floor								
		Living & Dining	8	3.30		3.00	79.20			
			8	4.60		3.00	110.40			
		Kitchen	8	2.10		3.00	50.40			
			8	2.40		3.00	57.60			
		Bed room	8	3.30		3.00	79.20			
			8	3.00		3.00	72.00			
			8	0.60		3.00	14.40			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
			4	1.60		3.00	19.20			
		Bath	8	1.25		3.00	30.00			
			8	1.50		3.00	36.00			
		Wc	8	1.50		3.00	36.00			
			8	1.25		3.00	30.00			
		Front of Toilet	8	2.60		3.00	62.40			
			8	0.90		3.00	21.60			
		Balcony wall	4	3.60		3.00	43.20			
			4	2.10		0.90	7.56			
		Staircase wall	1	2.40		3.00	7.20			
			2	4.80		3.00	28.80			
		Looby Wall	2	2.60		3.00	15.60			
			4	1.70		3.00	20.40			
						(A)	821.16			
		Deduct 50% opening	4	1.10	0.50	2.10	4.62			
			8	0.90	0.50	2.10	7.56			
			20	0.75	0.50	2.10	15.75			
		Without door	16	0.90	0.50	2.10	15.12			
		Staircase	1	1.50	0.50	1.20	0.90			
		Living	4	1.00	0.50	1.20	2.40			
			4	1.20	0.50	1.20	2.88			
		Bedroom	8	1.20	0.50	1.20	5.76			
		Kitchen	4	0.80	0.50	1.05	1.68			
		ventilator	8	0.60	0.50	0.45	1.08			
		Lobby	4	1.20	0.50	1.20	2.88			
						(B)	60.63			
		Ground Floor				(A-B)	760.53	sqm		
		First Floor	as Ground floor qty				760.53	sqm		
		Second Floor								
		Living & Dining	8	3.30		3.00	79.20			
			8	4.60		3.00	110.40			
		Kitchen	8	2.10		3.00	50.40			
			8	2.40		3.00	57.60			
		Bed room	8	3.30		3.00	79.20			
			8	3.00		3.00	72.00			
			8	0.60		3.00	14.40			
			8	1.60		3.00	38.40			
		Bath	8	1.25		3.00	30.00			
			8	1.50		3.00	36.00			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Wc	8	1.50		3.00	36.00			
			8	1.25		3.00	30.00			
		Front of Toilet	8	2.60		3.00	62.40			
			8	0.90		3.00	21.60			
		Balcony wall	4	3.60		3.00	43.20			
			4	2.10		0.90	7.56			
		Staircase wall	2	2.40		3.00	14.40			
			4	4.80		3.00	57.60			
		Looby Wall	4	2.60		3.00	31.20			
			8	1.70		3.00	40.80			
		Terrace wall	2	31.80		0.90	57.24			
						(A)	912.36			
		Deduct 50% opening	4	1.10	0.50	2.10	4.62			
			8	0.90	0.50	2.10	7.56			
			20	0.75	0.50	2.10	15.75			
		Without door	16	0.90	0.50	2.10	15.12			
		Staircase	1	1.50	0.50	1.20	0.90			
		Living	4	1.00	0.50	1.20	2.40			
			4	1.20	0.50	1.20	2.88			
		Bedroom	8	1.20	0.50	1.20	5.76			
		Kitchen	4	0.80	0.50	1.05	1.68			
		ventilator	8	0.60	0.50	0.45	1.08			
		Lobby	4	1.20	0.50	1.20	2.88			
						(B)	60.63			
		Second Floor				(A-B)	851.73	sqm		
		Terrace Floor								
		Tower wall	2	2.40		2.40	11.52			
			2	4.60		2.40	22.08			
		Water tank	2	2.40		1.50	7.20			
			2	4.60		1.50	13.80			
		Parapet wall	2	62.80		0.90	113.04			
		Deduct 50% opening	-1	1.10	0.50	2.10	-1.16			
							166.49	sqm		
		Total 12mm Plaster					2539.28	Sqm	103.00	261545.33
46	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
	11.3.2	In Cement Mortar 1:4 (1 cement : 4 fine sand)								
		Ground Floor	1	122.00		3.30	402.60			
			4	2.10		0.90	7.56			
						(A)	410.16			
		Deduct 50% opening								
			4	0.75	0.50	2.10	3.15			
		Staircase	1	1.50	0.50	1.20	0.90			
		Living	4	1.00	0.50	1.20	2.40			
			4	1.20	0.50	1.20	2.88			
		Bedroom	8	1.20	0.50	1.20	5.76			
		Kitchen	4	0.80	0.50	1.05	1.68			
		ventilator	8	0.60	0.50	0.45	1.08			
		Lobby	4	1.20	0.50	1.20	2.88			
						(B)	20.73			
		Ground Floor				(A-B)	389.43	sqm		
		First Floor								
			1	122.00		3.00	366.00			
			4	2.10		0.90	7.56			
						(A)	373.56			
		Deduct 50% opening								
			4	0.75	0.50	2.10	3.15			
		Staircase	1	1.50	0.50	1.20	0.90			
		Living	4	1.00	0.50	1.20	2.40			
			4	1.20	0.50	1.20	2.88			
		Bedroom	8	1.20	0.50	1.20	5.76			
		Kitchen	4	0.80	0.50	1.05	1.68			
		ventilator	8	0.60	0.50	0.45	1.08			
		Lobby	4	1.20	0.50	1.20	2.88			
						(B)	20.73			
		First Floor				(A-B)	352.83	sqm		
		Second Floor	1	122.00		3.00	366.00			
			4	2.10		0.90	7.56			
						(A)	373.56			
		Deduct 50% opening								
			4	0.75	0.50	2.10	3.15			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Staircase	1	1.50	0.50	1.20	0.90			
		Living	4	1.00	0.50	1.20	2.40			
			4	1.20	0.50	1.20	2.88			
		Bedroom	8	1.20	0.50	1.20	5.76			
		Kitchen	4	0.80	0.50	1.05	1.68			
		ventilator	8	0.60	0.50	0.45	1.08			
		Lobby	4	1.20	0.50	1.20	2.88			
						(B)	20.73			
		Second Floor				(A-B)	352.83	sqm		
		Terrace Floor								
		Tower wall & water tank	2	2.80		4.00	22.40			
			2	5.00		4.00	40.00			
		Parapet wall	2	62.80		0.90	113.04			
		Deduct 50% opening	-1	1.10	0.50	2.10	-1.16			
							111.89			
		Total 15mm Plaster					1206.98	sqm	120.00	144837.00
	11.9	Extra for providing and mixing water proofing materials in cement plaster work in proportion as recommended by manufacturer.								
		taking per 0.25 kg per sqmt	1	0.25	1206.98		301.74	kg	43.50	13125.85
	14.12	Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 sqm) complete.								
		As per 6mm Plaster					718.42			
		As per 12mm Plaster					2539.28			
							3257.70	sqm	23.00	74926.99
47	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.								
		As per 6mm Plaster					718.42			
		As per 12mm Plaster					2539.28			
		As per 15mm Plaster					1206.98			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
							4464.67	sqm	94.50	421911.32
48	14.11	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. (Make Asian / ICI Dulux or Equivalent) at any floor								
	14.11.1	On new work (two or more coats)								
		As per 6mm Plaster					718.42			
		As per 12mm Plaster					2539.28			
		Total					3257.70	sqm	52.50	171028.99
49	14.16	Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.16.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) (Make - Asian Ultima / ICI Dulux or Equivalent) with 07 year warranty.								
		As per 15mm Plaster					1206.98	sqm	74.50	89919.64
50	9.57	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.								
	09:57:02	SS Grade 304	4	4.50		0.90	16.20	R.M.		
			16.20	at	25.00	Kg/R. m	405.00	kg	525.00	212625.00
51	14.22	Painting on new work (two or more coats) to give an even shade with:								
	14.22.2	Premium synthetic enamel paint (Make - Asian / ICI Dulux or Equivalent)								
		Window Grill								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Staircase	4	1.50	1.35	1.20	9.72			
		Living	12	1.00	1.35	1.20	19.44			
			12	1.20	1.35	1.20	23.33			
		Bedroom	24	1.20	1.35	1.20	46.66			
		Kitchen	12	0.80	1.35	1.05	13.61			
		ventilator	24	0.60	1.35	0.45	8.75			
		Lobby	12	1.20	1.35	1.20	23.33			
		Staircase railing	4	4.50	1.35	0.90	21.87			
		Door	14	1.10	2.50	2.10	80.85			
			12	0.90	2.50	2.10	56.70			
			36	0.75	2.50	2.10	141.75			
		grill gate main ent	1	2.40	2.50	2.80	16.80			
							462.80	sqm	47.00	21751.51
52	10.41	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :								
		Chhajja	4	1.20			4.80			
			4	2.80			11.20			
			4	1.20			4.80			
			4	2.50			10.00			
			4	1.00			4.00			
			1	2.40			2.40			
			2	2.60			5.20			
		First Floor								
		Chhajja	4	1.20			4.80			
			4	2.80			11.20			
			4	1.20			4.80			
			4	2.50			10.00			
			4	1.00			4.00			
			1	2.40			2.40			
			2	2.60			5.20			
		Second Floor								
		Chhajja	4	1.20			4.80			
			4	2.80			11.20			
			4	1.20			4.80			
			4	2.50			10.00			
			4	1.00			4.00			

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
			1	2.40			2.40			
			2	2.60			5.20			
		Terrace wall	2	31.80			63.60			
			2	62.80			125.60			
							316.40	metre	68.00	21515.20
53	11.5	Neat Cement punning.								
		Ground Floor								
		Chhajja	4	1.20	0.60		2.88			
			4	2.80	0.60		6.72			
			4	1.20	0.60		2.88			
			4	2.50	0.60		6.00			
			4	1.00	0.60		2.40			
			1	2.40	0.60		1.44			
			2	2.60	0.60		3.12			
		First Floor								
		Chhajja	4	1.20	0.60		2.88			
			4	2.80	0.60		6.72			
			4	1.20	0.60		2.88			
			4	2.50	0.60		6.00			
			4	1.00	0.60		2.40			
			1	2.40	0.60		1.44			
			2	2.60	0.60		3.12			
		Second Floor								
		Chhajja	4	1.20	0.60		2.88			
			4	2.80	0.60		6.72			
			4	1.20	0.60		2.88			
			4	2.50	0.60		6.00			
			4	1.00	0.60		2.40			
			1	2.40	0.60		1.44			
			2	2.60	0.60		3.12			
							76.32	sqm	33.00	2518.56
54	4.13	Grading roof for water proofing treatment with:								
	4.13.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. No	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
		Terrace	2	42.50	sqm	0.04	3.40			
			1	85.00	sqm	0.04	3.40			
							6.80	cum	3817.00	25955.60
55	4.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation:								
		i) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.								
		ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound@ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.								
		First Floor	4	2.50	2.40		24.00			
			4	9.80		0.30	11.76			
		Second Floor	4	2.50	2.40		24.00			
			4	9.80		0.30	11.76			
							71.52	sqm	182.00	13016.64
								Total		7428043.00
									To Say	74.28

**DETAIL ESTIMATE FOR SANITARY AND WATER SUPPLY WORK AT
REDEVLOPMENT PHASE-II GAD H-TYPE,JAGDALPUR, DISTT. BASTAR(C.G.)**

Item No.	Nomenclature (Particulars)	Unit	S.O.R. Rate	Qty	Amount
1	2	3	4	5	6
1	Item No. 19.5.1				
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. CONCEALED WORK including cutting chases and making good the walls etc. a) 15 mm nominal outer dia .Pipes.	r/m	133.00	100.00	13300.00
2	Item No. 19.5.3				
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. CONCEALED WORK including cutting chases and making good the walls etc. a) 25 mm nominal outer dia .Pipes.	r/m	213.00	144.00	30672.00
3	Item No. 19.6.6				
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This included jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. EXTERNAL WORK. 50 mm nominal outer dia pipes	r/m	476.00	100.00	47600.00

Item No.	Nomenclature (Particulars)	Unit	S.O.R. Rate	Qty	Amount
4	Item No. 18.76.1				
	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. a. 75mm dia Make: (Supreme/Finolex)	r/m	182.00	96.00	17472.00
5	Item No. 18.76.2				
	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. s b. 110mm dia Make: (Supreme/Finolex)	r/m	267.00	72.00	19224.00
6	Item No. 18.77.1.1				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex / Supreme including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. G- Tee with Door (a) 75mm dia Make: (Supreme/Finolex)	no	113.00	24.00	2712.00
7	Item No. 18.77.1.2				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. G- Tee with Door (b) 110mm dia	no	154.00	24.00	3696.00
8	Item No. 18.77.1.1				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. E- Plain	no	113.00	12.00	1356.00

Item No.	Nomenclature (Particulars)	Unit	S.O.R. Rate	Qty	Amount
	Bend of 87.5 degree (a) 75mm dia Make: (Supreme/Finolex)				
9	Item No. 18.77.1.2				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. E- Plain Bend of 87.5 degree (b) 110mm dia Make: (Supreme/Finolex)	no	154.00	12.00	1848.00
10	Item No. 18.77.6				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex / Supreme including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. O- Nahani Trap (b) 63mm dia Make: (Supreme/Finolex)	no	90.50	32.00	2896.00
11	Item No. 19.15				
	Providing and fixing stainless steel Nahani trap jali of approved make/quality.	no	51.00	32.00	1632.00
12	Item No. 18.77.1.1				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. C- Bend with door of 87.5 degree a. 75mm dia Make: (Supreme/Finolex)	no	113.00	10.00	1130.00
13	Item No. 18.77.1.2				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. C- Bend with door of 87.5 degree b. 110mm dia Make: (Supreme/Finolex/ASTRAL)	no	154.00	10.00	1540.00
14	Item No.18.77.3.2				

Item No.	Nomenclature (Particulars)	Unit	S.O.R. Rate	Qty	Amount
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex / Supreme including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. N- Vent Cowel (b) 110mm dia Make: (Supreme/Finolex/ASTRAL)	no	44.00	4.00	176.00
15	Item No. 19.16.1				
	Providing and fixing in position best Indian make gun metal high pressure full way or Gate valve (peets Pattren) with iron wheel head complete. (Make - Surya Gold / Neta) (c) 25 mm dia	no	436.00	24.00	10464.00
16	Item No. 19.16.4				
	Providing and fixing in position best Indian make gun metal high pressure full way or Gate valve (peets Pattren) with iron wheel head complete. (Make - Surya Gold / Neta) (e) 50 mm dia	no	762.00	10.00	7620.00
17	Item No. 18.1.3				
	Providing and fixing water closet squatting pan (Indian type W.C. pan), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required : White Orissa pattern W.C. pan of size 580x440 mm. Make (Hindware / Parryware/JAQUAR)	no	2899.00	12.00	34788.00
18	Item No. 18.17.2				
	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : i) Flat Back (White) - 550X400 mm (Make- Hindware / Parryware/JAQUAR)	no	1408.00	24.00	33792.00
19	18.22.2				

Item No.	Nomenclature (Particulars)	Unit	S.O.R. Rate	Qty	Amount
	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink without drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :- A waste pipe upto nahni trap.560x410 mm bowl depth 215 mm.(Make - Nirali/ Neel kanth)	no	6210.00	12.00	74520.00
20	Item No. 19.14.1				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:Short nose Bib cock (400 grams) (Make Hindware / Parryware/JAQUAR)	no	382.00	10.00	3820.00
21	Item No. 19.14.2				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:Long Nose Bib cock (500 grams) (Make Hindware / Parryware/JAQUAR)	no	455.00	24.00	10920.00
22	Item No. 19.14.4				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approvedmake and conforming to IS:8931 including C.P. brass extension ifrequired:Piller Cock (400 grams) (Make Hindware / Parryware/JAQUAR)	no	398.00	24.00	9552.00
23	Item No. 19.14.10				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if requiredWall mixer with elegant knob (1400 grams) (Make Hindware / Parryware/JAQUAR)	no	1787.00	12.00	21444.00
24	Item No. 19.14.10				

Item No.	Nomenclature (Particulars)	Unit	S.O.R. Rate	Qty	Amount
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required Hand shower set with arm (Make Hindware / Parryware/JAQUAR)	no	754.00	12.00	9048.00
25	Item No. 19.14.7				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required Angle valve for basin mixer and geyser points (450 grams) (Make Hindware / Parryware/JAQUAR)	no	382.00	24.00	9168.00
26	Item No. 19.14.14				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required Soap dish plate	no	163.00	12.00	1956.00
27	Item No. 19.14.16				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required Towel rail (600mm long x 20mm dia)	no	338.00	12.00	4056.00
28	Item No. 20.3.2				
	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm ² , water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design : 150 x 100 mm size P type.	no	1397.00	12.00	16764.00
29	Item No. 19.6.9				

Item No.	Nomenclature (Particulars)	Unit	S.O.R. Rate	Qty	Amount
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This included jointing of pipes & fittings with onestep CPVC solvent cement, trenching, refilling & testing of joints complete including excavation of trench up to 1.5 Mtr. Depth Laying 15 cm thick and 40 cm wide CC 1:5:8 with all jointing material coupler etc including testing refilling of soil etc. complete. (Make - Finolex / Astral) a) 100 mm dia (c.c. base 30cm wide)(Make Finolex/Supreme)	RMT	2325.00	36.00	83700.00
	TOTAL AMOUNT OF WATER SUPPLY			Total Rs.	476866.00

4.77

**DETAIL ESTIMATE FOR EXTERNAL WATER SUPPLY WORK AT
REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)**

S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
1	2	5	6	7	8	9	10	11	12	13
1	19.7	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete:								
	19.7.5	40 mm nominal outer dia pipes	metre	1	200.00			200.00	364	72800
	19.7.6	50 mm nominal outer dia .Pipes.	metre	1	120.00			120.00	471	56520
									S	
2	19.16	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):								
	19.16.3	40 mm nominal bore	each	4				4.00	596	2384
	19.16.4	50 mm nominal bore	each	2				2.00	762	1524
3	19.47	Constructing masonry Chamber 30x30x50 cm, inside with modular well burnt clay bricks of 35 kg/ cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40mm nominal size) and inside								

DETAIL ESTIMATE FOR EXTERNAL WATER SUPPLY WORK AT REDEVLOPMENT PHASE-II GAD H-										
S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
1	2	5	6	7	8	9	10	11	12	13
3	19.47	plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design :								
			each	6				6.00	754	4617.2
	19.18	Constructing masonry Chamber 120x120x100 cm, inside with modular well burnt clay bricks of 35 kg/ cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm. top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :								
			each	18				18.00	11021	198378
									TOTAL	336223.20

**DETAIL ESTIMATE FOR RAIN WATER HARVESTING AT REDEVELOPMENT
PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)**

S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
1	2	5	6	7	8	9	10	11	12	
(A)	Excavation for Foundations									
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.		-	-	-	-	-		
	1.1.1	In all types of soils.								
		Pit 1.3M Ø		1	1.54		2.60	4.00		
		-	cum				Total	4.00	185	740.74
		-	-							
2	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.		-						
		Back Filling								
		Same as the qty of excavation						4.00		
		Volume of tank		-1	1.13		2.60	-2.94		
		Volume of PCC under tank		-1	5.03		0.10	-0.50		
			cum				Total	0.56	65	36.353
		-	-							57143
3	1.6	Extra for every additional lift of 1.5 m or part thereof.		-						
	1.6.1	All types of soils		-						
		Pit		1	1.33		1.10	1.46		
			cum				Total	1.46	26.5	38.707
		-	-							03571
4	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.		-						
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)		-						

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S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
		Pit		1	5.03		0.10	0.50		
			cum				Total	0.50	2659.00	1337.00
			-							
5	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.								
	3.3.2	M-25 Grade								
		for Pit cover		1	1.33		0.15	0.20		
			cum				Total	0.20	4298.00	856.00
6	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		Shuttering for cover for Pit		1	1.33			1.33		
			sqm				Total	1.33	235.00	312.00
8	9.12 road sor	Laying Reinforced Cement Concrete Pipe NP4/prestrssed concrete pipe on first class bedding in single row . (Laying Reinforced cement concrete pipe NP4/prestrssed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets .)								
	B	1200 mm dia								
		for Pit		1	2.50			2.50		
			Met er				Total	2.50	11783.00	29458.00
		-	-							

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S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
12	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.								
	21.1.1	All types of soil								
	21.1.1.4	200 mm dia.								
				2	3			6		
			met er				Total	6	371.00	2226.00
13	21.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.								
	21.3.1	100 mm nominal size dia.								
				2	2			4		
			met er				Total	4	454.00	1816.00
14	21.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) slotted pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineerin-charge								
	21.4.1	100 mm nominal size dia.		2	2			4		

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S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
			met er				Total	4	459.00	1836.00
15	21.14	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).								
	21.14 .1	Stone boulders of size range 5 cm to 20 cm, in recharge pit		0.667	1.13		0.50	0.38		
			cum				Total	0.38	863.00	325.00
16	21.14 .2	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders								
		At the base of Borewell		0.667	1.13		0.50	0.38		
			cum				Total	0.38	806.00	304.00
17	21.14 .3	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel								
		At the base of Borewell		0.667	1.13		0.50	0.38		
			cum				Total	0.38	471.00	178.00
18	21.9	Gravel packing in tube well construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.								
		Rain water Harvesting		2	0.03		3.00	0.19		
			cum				Total	0.19	1048.00	198.00
19	21.11	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of:								
	21.11 .1	100 mm dia		2	1.00			2.00		
			EAC H				Total	2.00	182.00	364.00

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S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
21	20.5	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :								
	20.5.2	150 mm dia. R.C.C. pipe	Metre	1		100		100	353.00	35300.00
22	20.7	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :								
	20.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :								
		With well burnt bricks	Each	2				2	6703.00	13406.00
24	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.5	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								

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S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
				1	100.000	1.260	0.20	25.20		
			Cum					25.2	4073.00	102640.00
25	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soils.		3	2.4	2.3	0.9	14.904		
		Pipes, cables etc. exceeding 80 mm dia.but not exceeding 300 mm dia.		1	100.000	0.300	1.00	30.00		
			Cum					44.904	185.00	8307.00
									total	199678.80

**DETAIL ESTIMATE FOR DRAIN AT REDEVELOPMENT PHASE-II GAD H-TYPE,
JAGDALPUR, DISTT. BASTAR(C.G.)**

S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Qty.	Rate	Amt.
1	2	5	6	7	8	9	10	11	12	13
1	3.20	contruction of RCC open drain 0.6x0.6 m inside dimension lined with 120mm thick RCC m-20 wall 120 mm thick M20 foundation over 100 mm thick (Av) levelling coarsing PCC M15 inc. excavation 'dressing of side and bottom, provision of HYSR reinforcement consisting 8 mm dia horizontal bar@150mm c/c and L shaped 8 mm vertical bar @150mm c/c (L=800mm) inc cutting bendng and binding wires and placing in position,providing shuttering and concreteing by using concrete mixer compaction by vibration etx complete as per drawing and technical specification	Cum							
2	3.20 (II)	Excavation in Soil (by Mechanical Means.) Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300.								
		Drain (600X800)		1	115			115.00		
						TOTAL		115.00	2592.00	298080.00
	3.25(ii)	Construction of RCC drain/chamber cover, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications excluding		1	115	0.8	0.1	9.20		

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		reinforcement. with RCC M-20								
			CUM					9.20	4146. 00	3814 3.2
									Total	3362 23.2 0

**DETAIL ESTIMATE FOR CONSTRUCTION OF BIODIGESTER NON SOR ITEMS
AT REDEVLOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT.
BASTAR(C.G.)**

S.No.	Item No.	Description Of Item	Unit	Nos	Quantity	Rate	Amount
1	2	5	6	7	11	12	13
-		from mp pwd sor 2024					
2	30.7	Providing and Installing bio digester unit based on DRDO technology made of fiber reinforced plastic having composition and the technical specifications such as:Parentage of fiber glass (glass content in fiber glass should be minimum 30%) :- 33.33%Water absorption (as per ASTM) :- 0.30%Flammability :- as per ASTM Tensile strength :-115 MPA Specific gravity at 25 degree centigrade :-1.45 IZOD impact strength :- 65 KJ/M2 Heat defection/distort temperature :- 65 deg C Corrosion resistance (non corrosive) fitted with Inlet pipe size rigid PVC :-100mm Outlet pipe size rigid PVC :-80mm Gas outlet rigid PVC with valve :- 20mm Bacteria immobilization PVC matrix (on all partition) and capacity :-					
-	30.7.9	UPTO 200 USER SIZE (4.0m X 2.0m X 1.25 m) Capacity of bio-digester :- 10,000 liters Area of top, bottom and side walls:-31.00 sq.m.Area of partition walls :- 10.00 sq.m Total weight of FRP:- 462.60 kg Bacteria inoculums quantity :- 3000 liters Minimum thickness of side walls/top and bottom :- 7mm Number of inside partitions:- 4 Minimum thickness of partition wall :-4mm.					
-		UPTO 200 USER					
-			each	1	1.0	632426.00	632426.00
						TOTAL	632426.00

DETAIL ESTIMATE FOR BOREWELL AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)

S.No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
1	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.								
	21.1.1	All types of soil								
	21.1.1.3	150 mm dia.	1	90.00			90.00	metre	339.00	30510.00
2	21.2	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge beyond 90 metre & upto 150 metre depth below ground level.								
	21.2.2	Rocky strata including Boulders.								
	21.2.2.3	150 mm dia.	1	40.00			40.00	metre	424.00	16960.00

S.No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
3	21.5	Supplying, assembling, lowering and fixing in vertical position in bore well, ISI marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per IS: 1239 (Part-1&Part-2) 1992 with lvth revision (Up-to-date amendments), of reputed & approved make, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer- in-charge.								
	21.5.3	150 mm nominal dia	1	90.00			95.00	metre	1304.00	123880.00
	.									
4	21.11	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of:								
	21.11.3	150 mm dia	1	1.00			1.00	each	217.00	217.00
5	21.17	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well within the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable)	1	2.00			2.00	point	1502.00	3004.00
		Motor Pump								

S.No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
6	23.3	Supplying, installation, testing and commissioning of Kirloskar/ CRI/ Crompton make submersible pump set for water supply system with submersible motor directly coupled to multi-stage submersible pump of specified discharge capacity, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as per specification.								
	23.3.4	3.0 HP, three phase	1	01			1.00	Each	22714.00	22714.00
7	23.5	Supplying and fixing of following sizes 'B' class G I pipe with all necessary Tee's, bends, sockets in the suction/ delivery line including cutting and threading etc. as per specification.								
	23.5.4	50 mm dia	1	50.00			50.00	Mtr.	441.00	22050.00
8	23.6	Supplying and fixing following dia HDPE pipe PE-80 Grade 8kg/sqcm) in single length in the suction/ delivery line of water supply pump etc. as per specification.								
	23.6.2	50 mm outer dia	1	250.00			250.00	MTR	118.00	29500.00
9	23.7	Supplying and fixing of following sizes GM gate valve ISI mark in the suction/ delivery line etc. as per specification								
	23.7.4	50 mm dia	1	01.00			1.00	EACH	1058.00	1058.00

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S.No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
10	23.1	Supply, installation, testing and commissioning of L&T/Crompton Make 1-3 HP 1 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as per specification. a) Phase indicating lamps with fuses and toggle switches 1 set b) 1/2/3 HP 1 phase DOL starter with over load and no volt relay 1 No c) 25 A "C" curve DPMCB 1 No d) Voltmeter 0-250 V 1 set e) Ammeter 0-10 A 1 set.	1	01			1.00	Each	4030.00	4030.00
11	23.14	Supplying, laying and fixing Polycab/Finolex/CRI make following size submersible cable along with GI/PVC/HDFC pipe line or laid in ground etc as per specification and IS: 694 (2010). Submersible cable should be rust proof, safe from Oil/Grease and under water chemical/abrasion resistant.								
	23.14.3	3x4.0 sqmm	1	250.00			250.00	Mtr.	90.00	22500.00
12	23.8	Supplying and fixing of following sizes GM non return valve ISI mark in the suction/ delivery line etc. as per specification.								
	23.8.4	50 mm dia	1	02			2.00	Each	1246.00	2492.00
13	6.50	Providing and fixing wooden board of suitable size (18" x 24") for energy meter etc complete as per specification.	1	02			2.00	Each	123.00	246.00

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S.No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
14	9.16	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as Perspecification.								
	9.16.5	63 amp	1	02			2.00	Each	1316.00	2632.00
								Total :-		281793.00
								To Say:-		2.82

**DETAIL ESTIMATE FOR CONSTRUCTION OF BOUNDARY WALL FOR
REDEVLOPMENT PHASE-II GAD H-TYPE,JAGDALPUR, DISTT. BASTAR(C.G.)**

S.No.	Item No.	Description Of Item	Unit	Nos	Length	Breadth	Depth	Quantity	Rate	Amt.
1	2	3	4	5	6	7	8	9	10	11
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soils.								
		Boundary Wall								
		Footing Size	A	37	1.3	1.3	1.45	90.67		
		Footing Size	B	6	1.6	2	1.45	27.84		
			Cum			Total		118.51	185.00	21924.00
2	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	Cum							
		Boundary Wall								
		Total Excavated Quantity						118.51		
		Boundary Wall PCC Work								
		Footing Size		37	1.3	1.3	0.10	6.25		
		Footing Size		6	1.4	1.5	0.10	1.26		
		Boundary Wall RCC Work								
		Footing Size		37	1.2	1.2	0.45	23.98		
		Footing Size		6	1.2	1.6	0.45	5.18		
		Boundary Wall Column								
		Column		-43	0.2	0.3	0.95	-2.45		
						Total		152.73	65.00	9927.00

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S.No.	Item No.	Description Of Item	Unit	Nos	Length	Breadth	Depth	Quantity	Rate	Amt.
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)								
		Boundary Wall PCC Work								
		Footing Size		37	1.3	1.3	0.10	6.25		
		Footing Size		6	1.4	1.8	0.10	1.51		
		plinth		1	110	0.3	0.10	3.30		
		deduction for column		-43	0.2	0.3	0.10	-0.26		
						Total		10.81	2659.00	28736.00
4	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.	Sqm							
		Boundary Wall PCC Work								
		Footing Size		37	1.2		0.10	4.44		
				37	1.2		0.10	4.44		
		Footing Size		6	1.4		0.10	0.84		
				6	1.8		0.10	1.08		
		plinth		2	110		0.10	22.00		
		Boundary Wall RCC Work								
		Footing Size		37	1		0.45	16.65		
				37	1		0.45	16.65		
		Footing Size		6	1.2		0.45	3.24		
				6	1.6		0.45	4.32		
		Plinth Beam								
		PB1		2	110	0.3		66.00		
						Total		139.66	139.00	19413.00

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S.No.	Item No.	Description Of Item	Unit	Nos	Length	Breadth	Depth	Quantity	Rate	Amt.
	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape	sqm							
		Boundary Wall Column (Upto Plinth Lvl)								
		Column (200X200)		43	0.5		0.90	19.35		
		Boundary Wall Column (Above Plinth Lvl)								
		Column (200X200)		43	0.5		1.50	32.25		
						Total		51.60	297.00	15325.00
5	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:	-	-	-	-	-	-		
	3.12.2	Thermo-Mechanically treated bars FE 500D	Kg.							
		footing(7 nos 10MM DIA both way)		1	42.86		80.00	3428.48	54.5	186852.16
6	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.								
	3.3.2	M-25 Grade	Cum							
		Boundary Wall RCC Work								
		Footing Size(1000X1000X300)		37	1.2	1.2	0.45	23.98		
		Footing Size(1200X1200X300)		6	1.2	1.2	0.45	3.89		
		Boundary Wall Column								
		Column (200X300)		43	0.2	0.3	0.80	2.06		
		Plinth Beam								
		PB1(200X300)		1	110	0.2	0.3	6.60		
							A	36.53		

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S.No.	Item No.	Description Of Item	Unit	Nos	Length	Breadth	Depth	Quantity	Rate	Amt.
		Boundary Wall Column (Above Plinth Lvl)								
		Column (200X300)		43	0.2	0.3	1.60	4.13		
		Top Beam of Boundary Wall								
		TB1(200X100)		1	110	0.2	0.1	2.20		
							B	6.33		
						Total(A+B)		42.86	4298.00	184195.00
7	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
				6.33				6.33		
						Total		6.33	97.50	617.00
8	7.25	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.25.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)		1	110	0.2	1.5	33.00		
						Total		33.00	3263.00	107679.00
9	9.45	Providing and placing in position angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for required length and drilling holes upto 10 mm dia as per requirement including priming coat with red oxide zinc chromate primer and placing the post/ strut in cement concrete block.								
		Boundary Wall		1	110		0.9	99.00		
								99.00		

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S.No.	Item No.	Description Of Item	Unit	Nos	Length	Breadth	Depth	Quantity	Rate	Amt.
		Consider 3.5 Kg/Rm						346.50		
			Kg			Total		346.50	69.5	2408 2.00
10	9.40	Providing and fixing concertina coil fencing with required dia 610 mm (having 50 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart tied with G.I. staples and G.I. clips to retain horizontal including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-incharge with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)								
		Boundary Wall		1	110			110.00		
			Rm			Total		110.00	164	1804 0.00
11	11.2	Providing and making 12mm thick cement plaster of mix:								
	11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	Sqm							
		Boundary Wall								
		Inner Side Face		1	110		1.5	165.00		
		Outer Side Face		1	110		1.5	165.00		
						Total		330.00	91.50	3019 5.00
12	14.22	Painting on new work (two or more coats) to give an even shade with:	Sqm							
	14.22.1	Satin synthetic enamel paint		1	110		0.6	66.00		
						Total		66.00	55.00	3630 .00

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S.No.	Item No.	Description Of Item	Unit	Nos	Length	Breadth	Depth	Quantity	Rate	Amt.
13	14.15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:	Sqm							
	14.15.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)								
				2	110		1.8	396.00		
						Total		396.00	56.00	22176.00
14		Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, Consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.	Sqm							
	9.3									
	9.3.1	Electric resistance or induction butt welded tubes Grade-250		2	5		3	30.00		
		20KG/SQM(for gate)						600.00	88.5	53100.00
		For 100 mtr							TOTAL	725891.16
		Hence for 120 mtr Boundry wall		1					120	871069.392

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S.No.	Item No.	Description Of Item	Unit	Nos	Length	Breadth	Depth	Quantity	Rate	Amt.
15	##### #	Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints mitres and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm og grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.Angle-iron frames								
		Gate	1	3.00	1.80	25	135.00			
						Total	135.00	SQM	73.50	₹ 9923 /-
								TOTAL		8809 91.89
									Say	8.81

**DETAIL ESTIMATE FOR CONSTRUCTION OF C.C.ROAD FOR REDEVELOPMENT
PHASE-II GAD H-TYPE,JAGDALPUR, DISTT. BASTAR(C.G.)**

S.No	Item	No.	Unit	L	B	D	Qty	Rate	AMT
1	Excavation for roadway in soil using including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 meters as per relevant clauses of section 300.a) Ordinary/ Hard soil.								
	(SOR P/11 I/3.1)	1	Cum	120.00	9.00	0.15	162.00	237.00	38394
2	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).								
	(P.W.D. CSR P/22, I/3.1.2)								
		1x1	Cum	120.00	6.20	0.10	74.40		
							74.40	2051.00	152594.4
3	Granular Sub-base as per Table:- 400-1 Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401. Plant mix method (with Mechanically crushed stone only) For Sub-base cum drainage layer or upper sub-base (@) with (i) Grading- III Material								

S.No	Item	No.	Unit	L	B	D	Qty	Rate	AMT
	(P.W.D. CSR P/4.1)	1x 1	Cum	120. 00	6.1 0	0.2 0	146.4 0		
							146.4 0	156 8.00	22955 5.2
4	Cement Concrete Pavement Construction of unreinforced, dowel jointed, plain cement concrete pavement as per IRC:58 over a prepared sub-base, coarse and fine aggregate conforming to IS:383 and graded as per table 600-3 mixed in a batching and mixing plant as per approved mix design, transported to site, laid with slip form / fixed form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing as per clause 602. (i) With Cement concrete grade M-30 and minimum cement content @ 375 kg/cum.								
	(P.W.D. SOR Road Work I/6.6.(ii)								
		1x 1	Cum	120. 00	6.0 0	0.2 5	180.0 0		
							180.0 0	488 1.00	87858 0

S.No	Item	No.	Unit	L	B	D	Qty	Rate	AMT
5	Laying only of 60mm/80mm thick precast interlocking concrete blocks in any shape/pattern including and over 30 +/- 5 mm thick average coarse sand bed with joints of 3mm thick filled by fine sand including the cost of sand excluding cost of paver block, leveling with surface vibrator, temping and sweeping etc. complete for the work								
	(P.W.D. SOR Road Work I/4.14.(B))	1x 2	SQM	120. 00	1.2 0		288.0 0	113. 00	32544
								Total	13316 67.6
								SAY	13.32

**DETAIL ESTIMATE FOR CONSTRUCTION OF GANTRY GATE AT
REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)**

SOR NO.	PARTICULARS	NOS			LENGTH	BREATH	DEPTH HEIGHT	QTY	UNIT	RATE	AMT.
1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.										
1.1.1	In all types of soils.										
		1	1	2	1.80	1.80	2.20	14.26			
							TOTAL	14.26	Cum	185	2637
1.6	Extra for every additional lift of 1.5 m or part thereof.										
1.6.1	All types of soils										
		1	1	2	1.80	1.80	0.70	4.54			
							TOTAL	4.54	Sqm	26.5	120
2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:										
2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.										
		1	2	2	1.50		0.20	1.20			
		1	2	2	1.50		0.20	1.20			
							TOTAL	2.40	Sqm	139	334
3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.										
3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).										
		1	1	2	1.50	1.50	0.20	0.90			
							TOTAL	0.90	Cum	2970	2673
3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.										

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3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).										
	UP TO G.L.	1	1	2	1.20	1.20	2.00	5.76			
	ABOVE G.L.	1	1	2	1.20	1.20	1.00	2.88			
							TOTAL	8.64	Cum	4163	35968
3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:										
3.12.1	Thermo-Mechanically treated bars FE 415										
		1	1	1	8.64	120.00		1036.80			
							TOTAL	1036.80	kg	54.5	56506
8.7	Overhead Signs (Providing and erecting overhead signs with a corrosion resistant aluminum alloy sheet reflectorized with high intensity retro-reflective sheeting of Micro prismatic grade type with vertical and lateral clearance given in clause 802.2 and 802.3 and installed as per clause 802.6 over a designed support system of aluminum alloy or galvanized steel trestles and trusses of sections and type as per structural design requirements and approved plans)										
8.7.1	Truss and Vertical Support										
	300 mm Dia pipe										
		1	1	2	6.00		71.60	859.20			
	65 x 65 x 6 Angle Iron										
		1	2	2	12.00		5.80	278.40			
		1	2	6	1.20		5.80	83.52			
		1	2	6	0.60		5.80	41.76			
	40 x 40 x 5 Angle Iron										
		1	15	2	1.20		3.00	108.00			
		1	15	2	2.00		3.00	180.00			
		1	15	2	0.60		3.00	54.00			
		1	15	2	0.90		3.00	81.00			
		1	15	2	1.20		3.00	108.00			
		1	15	2	2.00		3.00	180.00			
	10 mm plate										

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		1	1	4	0.60		79.00	189.60			
		1	1	12	0.15		79.00	142.20			
		1	1	2	0.90		79.00	142.20			
	FOUNDATION BOLT										
	25 MM BAR	1	1	16	2.00		3.10	99.20			
	16 MM TAR ROD	1	2	12	1.50		1.58	56.88			
	10 MM TAR ROD	2	10	2	2.00		0.62	49.60			
		9	2	2	1.80		0.62	40.18			
	8 MM TAR ROD	1	6	2	3.50		0.39	16.38			
							TOTAL	2710.12			
							OR	2.71	Tonne	78148	211790
8.7.2	Aluminum alloy plate for over head sign										
		1	1	2	12.00		1.20	28.80			
							TOTAL	28.80	Sqm	10557	304042
8.9	Painting on Steel Surfaces (Providing and applying two coats of ready mix paint of approved brand on steel surface after through cleaning of surface to give an even shade)										
		1	1	4	12.00		1.20	57.60			
							TOTAL	57.60	Sqm	50	2880
										TOTAL	616950

**DETAILED EASTIMATE FOR CONSTRUCTION OF BOUNDARY WALL &
GARDEN DEVELOPMENT WORK AT REDEVELOPMENT PHASE-II GAD H-TYPE,
JAGDALPUR, DISTT. BASTAR(C.G.)**

S. N.	SOR I/NO	PARTICULARS	NOS			L	B/W	H/D	QTY	UN .	RATE	Amt.
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and inequalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).										
			1	1	1	20.00	40.00		800.00	Sq m	7.20	5760.00
		GARDEN DEVELOPMENT										
16	22.1	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly leveling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).										
			1	1	1	20.00	40.00	0.30	240.00	Cu m	115.00	27600.00
17	22.2	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 5 km (earth measured in stacks will be reduced by 20% for payment).										
			1	1	1	20.00	40.00	0.20	160.00			
								TOTAL	160.00	Cu m	201.00	32160.00
18	22.4	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment).										
			1	1	1	10.00	10.00	0.15	15.00			
								TOTAL	15.00	Cu m	236.00	3540.00

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

19	4.1 Road SOR	Granular Sub-base as per Table:- 400-1 Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401										
	(B)	By Mix in place method										
		Disintegrated rock i.e moorum having CBR value not less than 20 and P.I. and L.L. not more than 6 and 20 respectively. (For Village roads only)										
			1	1	2	15.00	2.00	0.15	9.00			
								TOTAL	9.00	Cum	460.00	4140.00
20	4.15 Road SOR	Providing & laying precast interlocking concrete blocks of minimum compressive strength of 300 kg/sq.cm and approved size , shape/ pattern over coarse sand bed of thickness upto 40 mm and joints thick filled with fine sand including leveling with surface vibrator, temping and sweeping etc. complete as per IRC-SP-63-2004.										
	(A)	60mm thick Plain precast interlock concrete block	1	1	2	15.00	2.00		60.00			
								TOTAL	60.00	sqm	497.00	29820.00
21	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.										
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	1	1	2	15.00	2.00	0.15	9.00			
								TOTAL	9.00	Cum	2970.00	26730.00
22	22.2 5	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:										
	22.2 5.4	Carpet Grass (Well Developed)	1	1	1	200.0			200.00	Sqm	263.00	52600.00
23	Non Sor	Foxtell Palm (25x25)							5.00	each	900.00	4500.00
24	Non Sor	Niriyam(8x10)							5.00	each	70.00	350.00
25	Non Sor	Hamelia Paths Dwarf (8x10)							5.00	each	85.00	425.00
26	Non Sor	Mini Almanda(8x10)							5.00	each	80.00	400.00
27	Non Sor	Fonix Palm(18x18)							5.00	each	750.00	3750.00

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

28	Non Sor	Silver Yuca(21x21)							5.00	ea ch	700.0 0	3500.0 0
29	Non Sor	Lantana(8x10)							5.00	ea ch	75.00	375.00
30	Non Sor	Spethodea Campanulata 21x21							5.00	ea ch	950.0 0	4750.0 0
31	Non Sor	Plumeria Dwarf (25x25)							5.00	ea ch	700.0 0	3500.0 0
32	Non Sor	Cordia Sabstina(25x25)							5.00	ea ch	950.0 0	4750.0 0
33	Non Sor	Tikoma Orange(8x10)							5.00	ea ch	95.00	475.00
												-
										Grand Total		209125 .00
										Say as Rs		2.09

DETAIL AND ABSTRACT ESTIMATE OF PUMP HOUSE
AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT.
BASTAR(C.G.)

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soils.								
		Footing	4	1.50	1.50	1.80	16.20			
		For Beam	4	2.20	0.20	0.30	0.53			
					Total		16.73	cum	185.00	3094.68
2	1.6	Extra for every additional lift of 1.5 m or part thereof.								
	1.6.1	All types of soils								
		Footing	4	1.50	1.50	0.30	2.70	cum	26.50	71.55
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).								
		Footing	4	1.50	1.50	0.15	1.35			
		For Beam	4	2.20	0.20	0.10	0.18			
		For Floor	1	2.40	2.40	0.10	0.58			
					Total		2.10	cum	2659.00	5589.22

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. N o.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
4	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.								
	3.3.1	M-20 Grade								
		Footing	4	1.30	1.30	0.50	3.38			
		Column upto Plinth	4	0.20	0.30	1.80	0.43			
		Plinth / Ground Beam	4	2.20	0.20	0.30	0.53			
							4.34	(A)		
		Above Plinth								
		Column up to Slab	4	0.20	0.30	3.30	0.79			
		Lintel Beam	1	2.00	0.20	0.15	0.06			
			1	2.10	0.20	0.15	0.06			
		Slab Beam								
			4	2.20	0.20	0.30	0.53			
		Slab	1	2.80	2.80	0.10	0.78			
		Chhajja	1	1.60	0.60	0.10	0.10			
			1	2.10	0.60	0.10	0.13			
		Window Sill								
		W	1	1.50	0.20	0.05	0.02			
						(B)	2.46			
				Total		(A+B)	6.80	Cum	4231.00	28787.72
5	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Above Plinth	1	2.38			2.46	cum	97.50	240.24
6	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. N o.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
A	2.1. 1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		Footing	4	5.20		0.50	10.40			
		Column upto Plinth	4	1.00		1.80	7.20			
		Plinth / Ground Beam	4	2.20		0.60	5.28			
					Total		22.88	sqm	139.00	3180.32
B	2.1. 5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		Column up to Slab	4	1.00		3.30	13.20	sqm	297.00	3920.40
C	2.1. 8	Beams, lintels, cantilevers & walls								
		Lintel Beam	1	2.00		0.50	1.00			
			1	2.10		0.50	1.05			
		Slab Beam	4	2.20		0.80	7.04			
		Window Sill								
		W	1	1.50		0.10	0.15			
					Total		9.24	sqm	202.00	1866.48
D	2.1. 7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		Slab	1	2.80	2.80		7.84	sqm	235.00	1842.40
E	2.1. 13	Weather shade, chhajja, Cornices and mouldings								
		Chhajja	1	1.60	0.70		1.12			
			1	2.10	0.70		1.47			
					Total		2.59	sqm	294.00	761.46
7	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. N o.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
	3.12 .2	Thermo-Mechanically treated bars FE 500D								
		Qty. of R.C.C. M 20	6.80		100.00		680.40	Kg	54.50	37081.80
8 (A)	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		Below Floor	1	2.40	2.40	0.40	2.30	Cum	371.00	854.78
(B)	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
		(Total Excavated Earth)					16.73			
		Deduct : PCC Work					-2.10			
		RCC Work upto Plinth Beam					-4.34			
					Total		10.29	cum	65.00	668.59
9	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.	1	8.80	0.20	0.05	0.09	cum	4237.00	372.86
10	3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.	1	5.76	1.00		5.76	sqm	273.00	1572.48

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. N o.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
1 1	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5. 3	Cement Mortar 1:5 (1 cement : 5 coarse sand)								
		Below Plinth	4	2.20	0.20	0.40	0.70			
		Step	1	2.00	0.30	0.15	0.09			
		Step	1	2.00	0.30	0.30	0.18			
		Step	1	2.00	0.30	0.45	0.27			
							1.24	cum	3350.00	4167.40
1 2	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5. 4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		Room	4	2.20	0.20	2.70	4.75			
		Above Slab	1	9.60	0.20	0.30	0.58			
		Deduction :- Opening	-1	1.00	0.20	2.10	-0.42			
		Window	-1	1.50	0.20	1.50	-0.45			
					Total		4.46	cum	3263.00	14546.45
1 3	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:					4.46	cum	121.00	539.42
1 4	8.1	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position.								
	8.1. 2	Sal, bijasal, benteak, khair, haldu								
		Ground to Terrace								
		Main Door	1	5.10	0.127	0.064	0.04			
							0.04	cum	61051.00	2530.73

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. N o.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
15	8.12	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.								
	8.12.2	35 mm. thick (single leaf)								
			1	0.90		2.10	1.89			
							1.89	sqm	2005.00	3789.45
16	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
		Window	1	1.50		1.50	2.25	sqm		
			2.25	sqm	25.00	Kg/sqm	56.25	Kg	67.50	3796.88

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. N o.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
17	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:								
	9.47.1	For fixed portion								
		Door Frame								
		Window	1	1.50	5.00	1.50	11.25			
							11.25	Kg	331.00	3723.75
18	9.47.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/neoprene gasket required (Fittings shall be paid for separately).								
		Window	1	1.50	5.00	1.50	11.25	Kg	338.00	3802.50
19	9.48	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.					22.50	kg	27.00	607.50
20	9.51	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. N o.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
	9.51 .1	With float glass panes of 4 mm thickness	1	1.50		1.50	2.25	sqm	611.00	1374.75
2 1	9.34	Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.								
		50% opening of Window	1	1.50	0.50	1.50	1.13	sqm	791.00	889.88
2 2	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.	1	at	6.00		6.00	each	72.50	435.00
2 3	8.13 7	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc complete.								
	8.13 7.1	300mm	1				1.00	each	238.00	238.00
2 4	8.13 8	Providing and fixing stainless steel door latch with 12mm rod, 2.5mm thick flap, necessary stainless steel screws etc complete.								
	8.13 8.1	300mm	1				1.00	each	92.50	92.50
2 5	8.13 9	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.								
	8.13 9.1	250 x10mm	1				1.00	each	97.00	97.00
2 6	8.14 1	Providing and fixing Stainless steel "D" shape door handles made of 10mm dia rod with necessary stainless steel screws etc complete.								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. N o.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
	8.14 1.3	125 mm	2				2.00	each	42.00	84.00
2 7	8.13 2	Providing and fixing stainless steel butt hinges IS : 12817 marked with necessary stainless steel screws etc complete.								
	8.13 2.2	125x2.5mm (heavy)	3				3.00	each	76.50	229.50
2 8	11.4 1	Providing and fixing chicken mesh weighting not less than 250 gms/sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.								
		Beam	4	2.20	0.30		2.64			
		Column	4	2.00		3.00	24.00			
					Total		26.64	sqm	86.00	2291.04
2 9	12.3	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.								
	12.3 .2	50 mm thick								
		Room	1	2.40	2.40		5.76	sqm	254.00	1463.04
3 0	11.1	Providing and making 6mm thick cement plaster of mix:								
	11.1 .2	In Cement mortar 1:4 (1 cement : 4 fine sand)								
		Room	1	2.40	2.40		5.76			
		Chhajja	1	1.60	0.60		0.96			
			1	2.10	0.60		1.26			
					Total		7.98	Sqm	87.00	694.26
3 1	11.2	12mm thick cement plaster of mix:								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. N o.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
	11.2 .4	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
		Room	4	2.40		3.00	28.80			
		Above Slab Wall	1	9.60		0.30	2.88			
						(A)	31.68			
		Deduct : 50% Opening Area								
		Door	1	1.00	0.50	2.10	1.05			
		Window	1	1.50	0.50	1.50	1.13			
						(B)	2.18			
						(A-B)	29.51			
		Total 12mm Plaster			Total		29.51	Sqm	96.50	2847.23
32	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	11.3 .4	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
		Outer wall (Including Plinth)								
		Room	4	2.40		3.45	33.12			
		Above Slab Wall	1	9.60		0.30	2.88			
						(A)	36.00			
		Deduct : 50% Opening Area								
		Door	1	1.00	0.50	2.10	1.05			
		Window	1	1.50	0.50	1.50	1.13			
						(B)	2.18			
						(A-B)	33.83			
		Total 15mm Plaster			Total		33.83	sqm	113.00	3822.23
33	14.90	Distempering with acrylic washable distemper to give an even shade.								
	14.9 .1	On new work (Two or more coats)								
		As per 6mm Plaster					7.98			
		As per 12mm Plaster					29.51			
					Total		37.49	sqm	38.00	1424.43

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S. N o.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
34	14.16	Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.16.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)								
		As per 15mm Plaster					33.83	sqm	74.50	2519.96
		Door	1	1.00	2.50	2.10	5.25	sqm	469.00	2462.25
35	14.22	Painting on new work (two or more coats) to give an even shade with:								
	14.22.2	Premium synthetic enamel paint								
		Windows Grill	1	1.50	1.35	1.50	3.04			
		Door	1	1.00	2.50	2.10	5.25			
							8.29	sqm	47.00	389.51
36	10.41	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :								
		Chhajja	1	2.80			2.80			
			1	3.30			3.30			
		Parapet Wall	1	9.60			9.60			
					Total		15.70	metre	68.00	1067.60
37	11.5	Neat Cement punning.								
		Chhajja	1	1.60	0.60		0.96			
			1	2.10	0.60		1.26			
							2.22	sqm	33.00	73.26
									Total :-	149904.50
									To Say	1.50

**DETAIL ESTIMATE FOR SEWERAGE NETWORK WORK AT REDEVELOPMENT
PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)**

S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
1	2	5	6	7	8	9	10	11	12	13
1	20.3	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm ² , water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :								
	20.3.1	100x100 mm size P type	Eac h	8				8	1339.00	10712.00
	20.3.2	150 x 100 mm size P type.	Eac h	8				8	1397.00	11176.00
2	20.6	Providing, lowering, laying, aligning, fixing in position at and jointing at all level/ depths ISI marked HDPE pipes of PE-100 grade and PN 6 for sewer application as per IS 14333-1996 (amended upto date) in trenches in complete including all material, labour, testing and commissioning as per direction of Engineer.								
	20.6.2	150 mm dia	Metr e	1	100			100.00	771.00	77100.00
	20.6.3	200 mm dia	Metr e	1	150			150.00	1165.00	174750.00

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
3	20.7	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :								
	20.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :								

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
		With well burnt bricks	Eac h	4				4	6703	26812.00
	20.7.2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :								
		With well burnt bricks	Eac h	8				8.00	14448	115584.00
4	20.8.1	Extra for depth for manholes								
	20.8.1	Size 90x80 cm	Metr e	8	45.00	0.450		3.60	3755	13518.00
	20.8.2	Size 120x90 cm	Metr e	8	65.00	0.300		2.40	4473	10735.00
7	20.12	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard	Eac h	16				16.00	171	2736.00

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
		drawing and suitable to with stand the bend test and chemical resistance test as perspecification s and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.								
									TOTAL	443123

DETAIL AND ABSTRACT ESTIMATE OF SUMP WELL
AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT.
BASTAR(C.G.)

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
			NO	L	B	D/H				
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soils.								
		For Sump	1	6.20	5.20	2.00	64.48	cum	185.00	11928.80
2	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).								
		For Sump	1	6.20	5.20	0.15	4.84	cum	2659.00	12858.92
3	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.								
	3.3.1	M-20 Grade								
		Base Slab	1	6.00	5.00	0.15	4.50			

S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
		RCC Wall	2	5.40	0.20	2.15	4.64			
			2	4.00	0.20	2.15	3.44			
		Top Slab	1	5.40	4.40	0.13	2.97			
					Total		15.55	cum	4231.00	65808.97
4	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
A	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		For Base Slab	1	22.00		0.15	3.30	sqm	139.00	458.70
B	2.1.2	Wall of any thickness including attached pilasters, buttresses etc. in super structure.								
		RCC Wall	4	5.40		2.15	46.44			
			4	4.00		2.15	34.40			
					Total		80.84	sqm	228.00	18431.52
C	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		Top Slab	1	5.40	4.40		23.76			
					Total		23.76	sqm	235.00	5583.60
5	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
	3.12.1	Thermo-Mechanically treated bars FE 415								
		Qty. of R.C.C. M 20	15.55		90.00		1399.86	Kg	54.50	76292.37
6	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. In layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
		(Total Excavated Earth)					64.48			
		Deduct : PCC Work					-4.84			
		Deduct : Outer Size of sump	-1	5.40	4.40	1.50	-35.64			
					Total		24.00	cum	65.00	1560.26
9	4.10	Providing and laying three course damp proofing treatment in water reservoir, sump, tank etc., with bitumen felt and blown type petroleum bitumen at the rate of 1.6 Kg/sqm 1st, 3rd course and 2nd course with tar felt including applying priming coat at the rate of 0.25 litre per sqm and fillets and rounding corners, wherever required, complete.								
	4.10.1	Bitumen felt of type 2 grade 2 (Fibre base)								
		Wall Surface	2	5.00		1.50	15.00			
			2	4.00		1.50	12.00			
					Total		27.00	sqm	321.00	8667.00
10	11.5	Neat Cement punning.					27.00	sqm	33.00	891.00

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
11	12.3	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.								
	12.3.2	50 mm thick								
		Above Slab								
		Top Slab	1	5.40	4.40		23.76			
					Total		23.76	sqm	254.00	6035.04
12	20.15	Providing and fixing in position precast R.C.C. manhole cover and frame L D- 2.5 of required shape and approved quality								
	20.15.1	Rectangular shape 600x450mm internal dimensions	1				1.00	each	1031.00	1031.00
		Motor Pump								
6	32.101	Supplying of centrifugal type mono-block electric pump set for water supply system having following capacity three phase, 415 volts AC induction motor and pump as per specification.								
	32.101.2	5 HP, 750 LPM, 20 m head, suction size 80 mm, delivery size 65 mm	1	01			1.00	Each	15595.00	15595.00
7	23.5	Supplying and fixing of following sizes 'B' class G I pipe with all necessary Tee's, bends, sockets in the suction/ delivery line including cutting and threading etc. as per specification.								
	23.5.4	50 mm dia	1	50.00			50.00	Mtr.	441.00	22050.00

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
9	23.7	Supplying and fixing of following sizes GM gate valve ISI mark in the suction/ delivery line etc. as per specification								
	23.7.4	50 mm dia	1	01.00			1.00	EACH	1058.00	1058.00
10	23.1	Supply, installation, testing and commissioning of L&T/Crompton Make 1-3 HP 1 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as per specification. a) Phase indicating lamps with fuses and toggle switches 1 set b) 1/2/3 HP 1 phase DOL starter with over load and no volt relay 1 No c) 25 A "C" curve DPMCB 1 No d) Voltmeter 0-250 V 1 set e) Ammeter 0-10 A 1 set.								
			1	01			1.00	Each	4030.00	4030.00

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
11	23.14	Supplying, laying and fixing Polycab/Finolex/CRI make following size submersible cable along with GI/PVC/HDFC pipe line or laid in ground etc as per specification and IS: 694 (2010). Submersible cable should be rust proof, safe from Oil/Grease and under water chemical/abrasion resistant.								
	23.14.3	3x4.0 sqmm	1	150			150.00	Mtr.	90.00	13500.00
12	23.8	Supplying and fixing of following sizes GM non return valve ISI mark in the suction/ delivery line etc. as per specification.								
	23.8.4	50 mm dia	1	02			2.00	Each	1246.00	2492.00
13	6.50	Providing and fixing wooden board of suitable size (18" x 24") for energy meter etc complete as per specification.	1	02			2.00	Each	123.00	246.00
14	9.16	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as Perspecification.								
	9.16.5	63 amp	1	02			2.00	Each	1316.00	2632.00
							Total :-			271150.19

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S. No.	I. No.	PARTICULAR	Measurement				QTY	UNIT	RATE	AMOUNT
								To Say :-		2.71

**ESTIMATE OF EXTERNAL ELECTRIFICATION WORK FOR 48 NOS "H" TYPE
QUARTERS UNDER REDEVELOPMENT SCHEME AT SDM OFFICE PARISAR,
JAGDALPUR, DISTT- BASTAR (C.G.)**

S. N.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
01	3.11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit / PVC casing capping as per specification and IS: 694 (2010)				
	3.11.1	1 x 1.5 sq. mm	Metre	15.00	5.00	75.00
	3.11.34	4 x 10 sq. mm	Metre	287.00	3.00	861.00
02	6.28	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio \geq 120 lumens /watt.				
	6.28.6	45 watt	Each	2729.00	19.00	51851.00
03	12.19	Providing maintenance free earthing with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043(R 2016) -1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:				
	12.19.2	With 2 metre long GI Pipes and 25 kg back filling compound.	Each	8222.00	2.00	16444.00

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04	15.3	Supplying and laying following sizes one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as per specification, IS: 1554 (1988, Part 1) & IS: 7098 (1988, Part 1)				
	15.3.22	4 x 10 sq. mm.	Metre	95.00	50.00	4750.00
	15.3.23	4 x 16 sq. mm.	Metre	103.00	50.00	5150.00
05	15.8	Supplying and laying following sizes one number FRLS PVC insulated/ XLPE, PVC sheathed, unarmoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as per specification, IS: 1554 (1988, Part 1) & IS: 7098 (1988, Part 1)				
	15.8.1	2 x 4 sq. mm	Metre	86.00	340.00	29240.00
06	15.23	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as required.				
	15.23.23	4 x 10 sq. mm. (22 mm)	Each	98.00	2.00	196.00
	15.23.24	4 x 16 sq. mm. (22 mm)	Each	101.00	2.00	202.00
07	20.2	Supplying and erection of stay set complete (galvanized) with 19/20mm dia x 1.8 metre long stay rod, anchor plate of size 300mm x 300mm x 6.4 mm, thimble stay clamps, turn buckle (19/20mm x 600mm), strain insulator and specified G.I. stay wire etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as per specification.				
	20.2.2	With 7/3.15 mm dia G.I. stay wire	Each	3277.00	8.00	26216.00
08	20.6	Supplying and erection of angle/channel iron cross arms/ bracket/ other fitting of approved size and shape including drilling of holes for insulator pins, bolts and nuts etc as per specification.	kg	77.00	150.00	11550.00

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09	20.18	Supplying and fixing approved make 11 KV glazed porcelain pin insulator with G.I. spindle on existing pole bracket with necessary materials as per specification:	Each	226.00	21.00	4746.00
10	20.19	Supplying and fixing approved make 11 KV glazed porcelain disc type insulator with tension hardware on existing pole/ support/ cross arm channel as per specification complete:	Each	1180.00	9.00	10620.00
11	7.19	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and following depth made out of not less than 2 mm thick CRCA MS powder coated sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ammeters etc as per specifications including powder coating painting but without busbars, switchgears and other accessories etc complete as per specification.				
	7.19.1	Upto 300 mm deep	sqm	6818.00	0.72	4908.96
12	7.20	Supply, installation, testing and commissioning of 4 pole (3 phase + neutral) aluminium bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as per specification.				
	7.20.1	100 amp (20x5mm)	Metre	717.00	0.50	358.50
13	9.1	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as per specification, IS/ IEC: 60947-2 and Ics = 100 % Icu.				
	9.1.1	3 pole MCCB, 25-63A, Fixed Thermal Release, 10KA	Each	1483.00	1.00	1483.00
14	9.16	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.16.5	63 amps	Each	1316.00	3.00	3948.00

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15	10.14	Providing and fixing 4 pole, 415/500 volts following rating (AC-1 Duty) power contactor in existing starter/ cubical panel including, connections, testing and commissioning etc. as per specification.				
	10.14 .2	40 amps	Each	1422.0 0	1.00	1422.00
16	10.15	Providing and fixing following rating current transformer in existing cubical panel including, connections, testing and commissioning etc. as per specification.				
	10.15 .1	50/5 amps	Each	330.00	3.00	990.00
17	10.17	Providing and fixing penal mounting 230 volt LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	94.00	3.00	282.00
18	10.20	Providing and fixing penal mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.				
	10.20 .2	Digital type	Each	835.00	1.00	835.00
19	10.21	Providing and fixing penal mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as per specification.				
	10.21 .1	For voltmeter	Each	189.00	1.00	189.00
20	10.22	Providing and fixing following Time switch (timer) in existing panel including connection, testing and commissioning as per specification.				
	10.22 .2	Analoge type	Each	2525.0 0	1.00	2525.00
21	20.32	Supply and erection standard ACSR (aluminium conductor steel reinforced) confirming to IS 398-1961 of approved make at existing insulator at height upto 14m from ground level including stringing, binding with insulator, jointing wherever required, jumpering, tearing off connection etc complete etc. as per specification including clearing off obstacle if any:				

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	20.32 .3	Rabbit 6/1/3.35mm dia with calculated aluminium area 52.88 sq.mm, weight 214 kg/ km (100 amps)	Km	45355.00	0.40	18142.00
		Total (A)				300934.46
	Item no.	NON SOR (As Per Rate Analysis Approved by Head Office Raipur Wide Letter No. 307 Dt. 05.02.2015 And No.- 615 Dt. 03.03.2015)				
22	01	Supply and erection of HT over head line single length supports complete with aligning and keeping it in truly verticle position, including digging of required size filling with M15 grade cement concrete of 0.60 mtr. Dia of required depth around the pole including muffing of 0.50 meter from ground level of 45 mm dia with plaster & 02 coat of approved make weather proof paint as per specification with 20 cm thick base foundation refilling the pit including painting of pole with bitumen paint in bottom and one coat of red oxide and two coats of aluminum paint etc. of approved make the depth of foundation shall be 1/6 of the length of pole.				
	(B)	H Beam 152x152 mm 11 meter long 37.1 kg/Mtr Weight.	Each	26091.00	8.00	208728.00
23	02	Supply and erection of LT over head line single length supports complete with aligning and keeping it in truly verticle position, including digging of required size filling with M15 grade cement concrete of 0.60 mtr. Dia of required depth around the pole including muffing of 0.50 meter from ground level of 45 mm dia with plaster & 02 coat of approved make weather proof paint as per specification with 20 cm thick base foundation refilling the pit including painting of pole with bitumen paint in bottom and one coat of red oxide and two coats of aluminum paint etc. of approved make the depth of foundation shall be 1/6 of the length of pole.				
	(B)	RS joist 175 x 85 or 175 x 90 mm 9 meter long 19.4kg/Mtr Weight.	Each	13507.00	4.00	54028.00
24	03	Supplying, Fixing & Testing of 11 KV gang operated air break switch with 3 insulator per phase complete with the operating rod and locking arrangement as required as per specification on existing pole etc. complete (set of three numbers).	Set	10750.00	3.00	32250.00

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25	04	Supplying, Fixing & Testing of approved make 11 KV DO fuse set of suitable capacity with necessary materials and fitting etc. complete on existing DP structure of 11 KV HT line complete as per specifications (set of three numbers). .	Set	3239.00	2.00	6478.00
26	05	Supplying, Fixing & Testing of approved make lighting arrester suitable for 11 KV line on existing 11 KV DP structure as per specification with necessary material complete. (set of three numbers).	Set	2412.00	2.00	4824.00
27	06	Supplying installing, connecting, testing and commissioning of approved make 4 star rated distribution transformer of accepted standard specification aluminium wound outdoor type 11/0.4 KV with hand operated off load switch, drain and filter valve, earthing terminals, filling of oil with installing on existing DP structure complete.				
	(A)	100 KVA 11/0.4 KV (Aluminium wound with tap changing arrangement)	Each	186064.00	1.00	186064.00
	(B)	4 star 200 KVA 11/0.4 KV (Aluminium wound with tap changing arrangement)	Each	337671.00	1.00	337671.00
28	07	Providing and fixing outdoor type pole mounting weather, dust and vermin proof LT distribution box made of 14/16 gauge MS sheet with clamping arrangements, lockable hinged door duly painted on all sides with red oxide, antirust and corrosion treatment, two coats of synthetic enamel paints of approved make and shade consisting of following fittings.				
	(A)	For 100 KVA 11/0.4 KV substation				
	a	160 Amps TP MCCB with neutral link for incoming 1 no.				
	b	4 strip aluminium bus bar 200 Amps supported on epoxy insulators 1 set.				
	c	150 Amps, 415 Volts HRC base with 250 Amp HRC-Fuse for out going feeder- 6 nos. & 3 Nos. for LT interconnection				
	d	GI earth terminals 2 nos.				
	e	7 lever Godrej padlock with keys 1 no.				

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	f	Light point with switch and hoder, with 100 watt lamp 1 nos.	Each	14471.00	1.00	14471.00
29	08	Providing and fixing outdoor type pole mounting weather, dust and vermin proof LT distribution box made of 14/16 gauge MS sheet with clamping arrangements, lockable hinged door duly painted on all sides with red oxide, antirust and corrosion treatment, two coats of synthetic enamel paints of approved make and shade consisting of following fittings.				
	(B)	For 200 KVA 11/0.4 KV substation				
	a	300 Amps TP MCCB with neutral link for incoming 1 no.				
	b	4 strip aluminium bus bar 400 Amps supported on epoxy insulators 1 set.				
	c	250 Amps, 415 Volts HRC base with 200 Amp HRC-Fuse for out going feeder- 6 nos. & 3 Nos. for LT interconnection				
	d	GI earth terminals 2 nos.				
	e	7 lever Godrej padlock with keys 1 no.				
	f	Light point with switch and hoder, with 100 watt lamp 1 nos.	Each	30322.00	1.00	30322.00
30	09	Making of internal connection of over head existing sub station structure consisting of transformer, lighting arrester A B switch D.O. fuses including providing and connection with 05 ACSR conductor, heat shrinkage heavy duty PVC sleeves, soldering insulation tape binding etc. complete with all other necessary material complete and ready for charging as per IE rules.	Job	2757.00	2.00	5514.00
31	10	Suppling Laying and Testing of approved make 150 Sqmm, Single core Armoured XLPE insulated and over all PVC sheathed heavy duty Power cable (confirming to Latest IS ammendment) 1.1 KV grade cable of approved make with aluminium stranded conductor in existing GI pipe/ RCC hume pipe or any other pipe or in air on wall pole etc. with required materials for connection / termination i/c gland and lugs etc. complate as per requirement of works.	Mtr.	303.00	40.00	12120.00

32	11	Suppling Laying and Testing of approved make 300 Sqmm, Single core Armoured XLPE insulated and over all PVC sheathed heavy duty Power cable (confirming to Latest IS ammendment) 1.1 KV grade cable of approved make with aluminium stranded conductor in existing GI pipe/ RCC hume pipe or any other pipe or in air on wall pole etc. with required materials for connection / termination i/c gland and lugs etc. complte as per requirement of works.	Mtr.	386.00	40.00	15440.00
33	12	Providing and fixing earthing arrangement with 40 mm dia "B" class GI pipe electrode i/c packing of charcoal power and salt as per specification watering pipe 20 mm dia GI with 40 x 20 mm reducer connection etc. complete with refilling the pit as required i/c excavation of pit in all type of soil providing and making brick masonry chamber of suitable size with CI frame and cover funnal etc complete as per IS specification.	Job	1853.00	13.00	24089.00
34	13	Providing and fixing 25 x 3 mm GI strip on surface or in recess for connections etc. as required.	Mtr.	66.00	215.00	14190.00
35	14	Supplying and fixing of 16 Sqmm single core unarmored Aluminium cable, 1100 Volt Grade.	Mtr.	71.00	40.00	2840.00
36	15	Supplying, Laying, Testing & Commissioning of XLPE insulated and PVC sheathed heavy duty 3x50 + 1x25 +1x35 Sqmm. Arial bunch power cable confirming to IS-7098/Part-I/88 with latest ammendment, 1.1 KV grade unarmoured cable of approved make with aluminium solid/stranded conuctor. The cable shall be laid in air as per specifications.	Mtr.	200.00	360.00	72000.00
37	16	Supplying and installation of insulation piecing connector made of UV stablized thermoplastic materials with contact teeth of copper alloy materials, electro galvanized hexagonal head nut and bolt, pressure pad, rubber pads etc. complete connection of Street light/ Distribution Box/ Tee connection /Service connection suitable for 16 to 95 Sqmm. main conductor and 1-5 to 50 Sqmm tab conductor of AB cable.	Each	138.00	32.00	4416.00

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38	17	Supplying and fixing of earthing connector (1 bolt type) made of extruded aluminium alloy with electro zinc plated M.S. bolt and washer, pressure epad top clamp etc. complete suitable for 2.5 to 50 Sqmm conductor of ABC cable.	Each	55.00	8.00	440.00
39	18	Supply and fixing of Universal Distribution Connector (Tee connector) made of extruded aluminium alloy with electro galvanized MS U bend, both and washer etc. complete for 16 to 95 Sqmm uninsulated messenger wire of AB cable.	Set.	55.00	3.00	165.00
40	19	Supply and Fixing of Dead end/anchoring clamp made of extruded aluminium alloy with electro galvanized MS U bend. Both and washer etc. complete for 16 to 95 Sqmm uninsulated messenger wire of ABC cable.	Each	145.00	7.00	1015.00
41	20	Supply and Fixing of Suspension Clamp of Assemble made of aluminium alloy with electro galvanized MS bolt and washer plastic base cover etc. complete suitable for all size cable, bare messenger wire of ABC cable.	Each	103.00	7.00	721.00
42	21	Distribution box (3- phase) for housing 5 nos. 10 Amps MCCB including accessories for fixing with pole suitable for AB XLPE cable.	Each	2104.00	5.00	10520.00
43	22	Providing and fixing earthing arrangement for HT/LT poles with GI lead of 115 turns of 50mm dia connection with bracket/cross arm by pole with 4 mm dia GI lead through 15 mm dia 'B' class approved make GI protection pipe of length from bottom of pole to 1.5 meters above ground level packing of charcoal powder and salt as per specification including excavation of pit in all type of soil / rocks etc. complete.	Each	490.00	5.00	2450.00
44	23	Supplying and fixing 12x16 gauge bar-bed wire ground the existing HT/LT electric pole for safety measures as per IE rules including all staples and all other necessary materials complete as required as per specification.	Mtr.	13.00	30.00	390.00
45	24	Supplying and Fixing of 11 KV Danger board on HT Pole	Each	105.00	4.00	420.00

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46	25	Design, manufacture, supply and fixing of outdoor type floor mounted weather, dust and vermin proof of IP:55 type LT main feeder pillar distribution box made of 16 gauge MS sheet with clamping arrangements, lockable hinged door duly painted on all sides with red oxide, anti rust and corrosion treatment, two coats of synthetic enamel paints or approved make and shade consisting of following fittings.				
		(i) Supplying and fixing 63 Amp TPN MCCB, 36 KA approved make for incomer connection - 01 Nos.				
		(ii) Supplying and fixing 100 Amp 04 Strip aluminium bus bar supported on epoxy insulator - 01 set.				
		(iii) Supplying and fixing 40 Amp TPN MCCB, 25 KA approved make for outgoing connection - 03 nos.				
		(iv) Supplying and fixing GI earth terminal - 02 nos.				
		(v) Supplying and fixing 07 lever goderaj padlock with keys - 02 nos.				
		(vi) Light points with switch and holder with 1x28 watt CFL-01 nos.				
		(vii) connecting cables as required.				
		(viii) Providing Energy meter chamber which is suitable for 3 Phase Energy meter - 01 nos.				
		(ix) LED type Indicator - 03 nos, Digital ammeter, Voltmeter & Frequency with selector switch and Protection Fuse-03 nos.	Job	37950.00	1.00	37950.00
	Total (B)				Rs.	1079516.00
	Total (A+B)				Rs.	1380450.46
1.	Add: 5% Supervision Charges Payable to CSPDCL.				Rs.	69022.52
2.	Add: 18% GST on supervision Charges already payable to CSPDCL.				Rs.	12424.05
3.	Add: System Strengthening Charges 1000 rs/kw for 161kw Payable to CSPDCL				Rs.	161000.00
4.	Add: 18% GST on System Strengthening Charges payable to CSPDCL				Rs.	28980.00
5.	Add: Testing of Transformer Charges payable to CSPDCL				Rs.	40000.00
6.	Add: Testing & Inspection Charges Payable to C.G. Licensing Board				Rs.	50000.00
7.	Add: New Service Connection Charges of Street Light & water Pump Payable to CSPDCL				Rs.	100000.00
8.	Add: LT Line Shifting Charges Payable to CSPDCL				Rs.	225000.00
9.	Add: Solar Power system (lump sum)				Rs.	414000.00

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	Grand Total	Rs.	2480877 .04
	Say	Rs.	24.81 Lacs

**SCHEDULE OF ITEM FOR EXTERNAL ELECTRIFICATION WORK FOR "H" TYPE
QUARTERS UNDER REDEVELOPMENT SCHEME AT KANGOLI, JAGDALPUR
DISTT- BASTAR (C.G.)**

S. N.	Particulars	Unit	Qty.	Rate	Amount
01	Supplying and drawing of Havells/Polycab/Finolex Make (ISI) 1x1.5 sqmm FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit / PVC casing capping as per specification and IS: 694 (2010)	Metre	5.00		
02	Supplying and drawing of Havells/Polycab/Finolex Make (ISI) 4x10 sqmm FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit / PVC casing capping as per specification and IS: 694 (2010)	Metre	3.00		
03	Providing maintenance free earthing With 2 metre long GI Pipes and 25 kg back filling compound including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043(R 2016) -1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:	Each	2.00		
03	Supplying, installation, testing and commissioning of Philips/ Crompton/ Wipro make 230/250 volts 45 watt LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio ≥ 120 lumens /watt.	Each	30.00		
04	Supplying and laying of Polycab/Havells/ Universal make 4 x 10 sq. mm sizes one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as per specification, IS: 1554 (1988, Part 1) & IS: 7098 (1988, Part 1)	Metre	50.00		

S. N.	Particulars	Unit	Qty.	Rate	Amount
05	Supplying and laying of Polycab/Havells/ Universal make 4 x 16 sq. mm sizes one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as per specification, IS: 1554 (1988, Part 1) & IS: 7098 (1988, Part 1)	Metre	50.00		
06	Supplying and laying of Polycab/Havells/ Universal make 2 x 4 sq. mm sizes one number FRLS PVC insulated/ XLPE, PVC sheathed, unarmoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as per specification, IS: 1554 (1988, Part 1) & IS: 7098 (1988, Part 1)	Metre	180.00		
07	Supplying and making end termination with brass compression gland and aluminum lugs for 4 x 10 sq. mm. (22 mm) size armoured aluminum conductor power cable of 1.1 KV grade as required.	Each	2.00		
08	Supplying and making end termination with brass compression gland and aluminum lugs for 4 x 16 sq. mm. (22 mm) size armoured aluminum conductor power cable of 1.1 KV grade as required.	Each	2.00		
09	Supplying and erection of stay set complete (galvanized) With 7/3.15 mm dia G.I. stay wire 19/20mm dia x 1.8 metre long stay rod, anchor plate of size 300mm x 300mm x 6.4 mm, thimble stay clamps, turn buckle (19/20mm x 600mm), strain insulator and specified G.I. stay wire etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded	Each	8.00		
10	Supplying and erection of angle/channel iron cross arms/ bracket/ other fitting of approved size and shape including drilling of holes for insulator pins, bolts and nuts etc as per specification.	kg	600.00		
11	Supplying and fixing approved make 11 KV glazed porcelain pin insulator with G.I. spindle on existing pole bracket with necessary materials as per specification:	Each	9.00		
12	Supplying and fixing approved make 11 KV glazed porcelain disc type insulator with tension hardware on existing pole/ support/ cross arm channel as per specification complete:	Each	9.00		

S. N.	Particulars	Unit	Qty.	Rate	Amount
13	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and Upto 300 mm deep made out of not less than 2 mm thick CRCA MS powder coated sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ammeters etc as per specifications including powder coating painting but without busbars, switchgears and other accessories etc complete as per specification.	sqm	0.72		
14	Supply, installation, testing and commissioning of 100 Amp (20x5 mm) 4 pole (3 phase + neutral) aluminium bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as per specification.	Metre	0.50		
15	Providing and fixing of ABB/L&T/Havells make 3 pole MCCB, 25-63A , Fixed Thermal Release, 10KA rating MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as per specification, IS/ IEC: 60947-2 and Ics = 100 % Icu.	Each	1.00		
17	Supplying and fixing of ABB/L&T/Havells make (ISI) 63 Amp TP&N MCB , 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.	Each	2.00		
18	Providing and fixing 4 pole, 415/500 volts 40 amps rating (AC-1 Duty) power contactor in existing starter/ cubical panel including, connections, testing and commissioning etc. as per specification.	Each	1.00		
19	Providing and fixing 50/5 amps rating current transformer in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	3.00		
20	Providing and fixing panel mounting 230 volt LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	3.00		
21	Providing and fixing panel mounting Digital type 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	1.00		

S. N.	Particulars	Unit	Qty.	Rate	Amount
22	Providing and fixing penal mounting selector switch For voltmeter in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	1.00		
23	Providing and fixing Analoge type Time switch (timer) in existing panel including connection, testing and commissioning as per specification.	Each	1.00		
24	Supply and erection of Rabbit 6/1/3.35mm dia with calculated aluminium area 52.88 sq.mm, weight 214 kg/ km (100 amps) ACSR (aluminium conductor steel reinforced) confirming to IS 398-1961 of approved make at existing insulator at height upto 14m from ground level including stringing, binding with insulator, jointing wherever required, jumpering, tearing off connection etc complete etc. as per specification including clearing off obstacle if any:	Km	0.40		
25	Supply and erection of H Beam 152x152 mm 11 meter long 37.1 kg/Mtr Weight. HT over head line single length supports complete with aligning and keeping it in truly verticle position, including digging of required size filling with M15 grade cement concrete of 0.60 mtr. Dia of required depth around the pole including muffing of 0.50 meter from ground level of 45 mm dia with plaster & 02 coat of approved make weather proof paint as per specification with 20 cm thick base foundation refilling the pit including painting of pole with bitumen paint in bottom and one coat of red oxide and two coats of aluminum paint etc. of approved make the depth of foundation shall be 1/6 of the length of pole.	Each	3.00		
26	Supply and erection of RS joist 175 x 85 or 175 x 90 mm 9 meter long 19.4kg/Mtr Weight. LT over head line single length supports complete with aligning and keeping it in truly verticle position, including digging of required size filling with M15 grade cement concrete of 0.60 mtr. Dia of required depth around the pole including muffing of 0.50 meter from ground level of 45 mm dia with plaster & 02 coat of approved make weather proof paint as per specification with 20 cm thick base foundation refilling the pit including painting of pole with bitumen paint in bottom and one coat of red oxide and two coats of aluminum paint etc. of approved make the depth of foundation shall be 1/6 of the length of pole.	Each	8.00		

S. N.	Particulars	Unit	Qty.	Rate	Amount
27	Supplying, Fixing & Testing of 11 KV gang operated air break switch with 3 insulator per phase complete with the operating rod and locking arrangement as required as per specification on existing pole etc. complete (set of three numbers).	Set	1.00		
28	Supplying, Fixing & Testing of approved make 11 KV DO fuse set of suitable capacity with necessary materials and fitting etc. complete on existing DP structure of 11 KV HT line complete as per specifications (set of three numbers). .	Set	1.00		
29	Supplying, Fixing & Testing of approved make lighting arrester suitable for 11 KV line on existing 11 KV DP structure as per specification with necessary material complete. (set of three numbers).	Set	1.00		
31	Providing and fixing outdoor type pole mounting weather, dust and vermin proof LT distribution box made of 14/16 gauge MS sheet with clamping arrangements, lockable hinged door duly painted on all sides with red oxide, antirust and corrosion treatment, two coats of synthetic enamel paints of approved make and shade consisting of following fittings. For 200 KVA 11/0.4 KV substation 300 Amps TP MCCB ABB/ L&T/Hevels Make with neutral link for incoming 1 no. 4 strip aluminium bus bar 400 Amps supported on epoxy insulators 1 set. 250 Amps, 415 Volts HRC base with 200 Amp HRC-Fuse for out going feeder- 6 nos. & 3 Nos. for LT interconnection GI earth terminals 2 nos. 7 lever Godrej padlock with keys 1 no. Light point with switch and hoder, with 100 watt lamp 1 nos.	Each	1.00		
32	Making of internal connection of over head existing sub station structure consisting of transformer, lighting arrester A B switch D.O. fuses including providing and connection with 05 ACSR conductor, heat shrinkage heavy duty PVC sleeves, soldering insulation tape binding etc. complete with all other necessary material complete and ready for charging as per IE rules.	Job	1.00		

S. N.	Particulars	Unit	Qty.	Rate	Amount
33	Suppling Laying and Testing of Polycab/Havells/ Universal make 300 Sqmm , Single core Armoured XLPE insulated and over all PVC sheathed heavy duty Power cable (confirming to Latest IS ammendment) 1.1 KV grade cable of approved make with aluminium stranded conductor in existing GI pipe/ RCC hume pipe or any other pipe or in air on wall pole etc. with required materials for connection / termination i/c gland and lugs etc. complete as per requirement of works.	Mtr.	40.00		
34	Providing and fixing earthing arrangement with 40 mm dia "B" class Tata/ Jindal/ Surya make GI pipe electrode i/c packing of charcoal power and salt as per specification watering pipe 20 mm dia "B" class Tata/ Jindal/ Surya make GI with 40 x 20 mm reducer connection etc. complete with refilling the pit as required i/c excavation of pit in all type of soil providing and making brick masonry chamber of suitable size with CI frame and cover funnal etc complete as per IS specification.	Job	6.00		
35	Providing and fixing 25 x 3 mm GI strip on surface or in recess for connections etc. as required.	Mtr.	100.00		
36	Supplying and Fixing of Polycab/Havells/ Universal make 16 Sqmm single core unarmored aluminium cable, 1100 Volt Grade.	Mtr.	56.00		
37	Supplying, Laying, Testing & Commissioning of XLPE insulated and PVC sheathed heavy duty 3x50 + 1x25 +1x35 Sqmm . Arial bunch power cable confirming to IS-7098/Part-I/88 with latest amendment, 1.1 KV grade unarmoured cable of approved make with aluminium solid/stranded conuctor. The cable shall be laid in air as per specifications. Remark:- The AB Cable should be procured form the valid vender list approved by the CSPDCL	Mtr.	350.00		
38	Supplying and installation of insulation piecing connector made of UV stablized thermoplastic materials with contact teeth of copper alloy materials, electro galvanized hexagonal head nut and bolt, pressure pad, rubber pads etc. complete connection of Street light/ Distribution Box/ Tee connection /Service connection suitable for 16 to 95 Sqmm. main conductor and 1-5 to 50 Sqmm tab conductor of AB cable.	Each	48.00		

S. N.	Particulars	Unit	Qty.	Rate	Amount
39	Supplying and fixing of earthing connector (1 bolt type) made of extruded aluminium alloy with electro zinc plated M.S. bolt and washer, pressure epad top clamp etc. complete suitable for 2.5 to 50 Sqmm conductor of ABC cable.	Each	12.00		
40	Supply and fixing of Univercal Distribution Connector (Tee connector) made of extruded aluminium alloy with electro galvanized MS U bend, both and washer etc. complete for 16 to 95 Sqmm uninsulated messenger wire of AB cable.	Set.	2.00		
41	Supply and Fixing of Dead end/anchoring clamp made of extruded aluminium alloy with electro galvanized MS U bend. Both and washer etc. complete for 16 to 95 Sqmm uninsulated messenger wire of ABC cable.	Each	6.00		
42	Supply and Fixing of Suspension Clamp of Assemble made of aluminium alloy with electro galvanized MS bolt and washer plastic base cover etc. complete suitable for all size cable, bare messenger wire of ABC cable.	Each	8.00		
43	Distribution box (3- phase) for housing 5 nos. 10 Amps MCCB including accessories for fixing with pole suitable for AB XLPE cable.	Each	7.00		
44	Providing and fixing earthing arrangement for HT/LT poles with GI lead of 115 turns of 50mm dia connection with bracket/cross arm by pole with 4 mm dia GI lead through 15 mm dia 'B' class Tata/ Jindal/ Surya make GI protection pipe of length from bottom of pole to 1.5 meters above ground level packing of charcoal powder and salt as per specification including excavation of pit in all type of soil / rocks etc. complete.	Each	8.00		
45	Supplying and fixing 12x16 gauge bar-bed wire ground the existing HT/LT electric pole for safety measures as per IE rules including all staples and all other necessary materials complete as required as per specification.	Mtr.	15.00		
46	Supplying and Fixing of 11 KV Danger board on HT Pole	Each	2.00		
47	Design, manufacture, supply and fixing of outdoor type floor mounted weather, dust and vermin proof of IP:55 type LT main feeder pillar distribution box made of 16 gauge MS sheet with clamping arrangements, lockable hinged door duly painted on all sides with red oxide, anti rust and corrosion treatment, two coats of synthetic enamel paints or approved made and shade consisting of following fittings.				

S. N.	Particulars	Unit	Qty.	Rate	Amount
	(i) Supplying and fixing 63 Amp 36 KA TPN MCCB, ABB/ L&T/Hevelis Make for incomer connection - 01 Nos. (ii) Supplying and fixing 100 Amp 04 Strip aluminium bus bar supported on epoxy insulator - 01 set. (iii) Supplying and fixing 40 Amp TPN MCCB, 25 KA ABB/ L&T/Hevelis Make for outgoing connection - 03 nos. (iv) Supplying and fixing GI earth terminal - 02 nos. (v) Supplying and fixing 07 lever goderaj padlock with keys - 02 nos. (vi) Light points with switch and holder with 1x28 watt CFL-01 nos. (vii) connecting cables as required. (viii) Providing Energy meter chamber which is suitable for 3 Phase Energy meter - 01 nos. (ix) LED type Indicator - 03 nos, Digital ammeter, Voltmeter & Frequency with selector switch and Protection Fuse-03 nos.	Job	1.00		

**ESTIMATE OF INTERNAL ELECTRIFICATION WORK I/C FIXTURES
FOR 01 NO BLOCK (12 UNITS) "H" TYPE QUARTERS AT SDM OFFICE
AREA, JAGDALPUR DISTT-BASTAR (C.G.)**

	SOR Item no.	PARTICULARS	UNIT	RATE (in Rs.)	For 01 Block H-Type (12 Nos. Flate)	AMOUNT (in Rs.)
01	1.7	Wiring for light/fan/exhaust fan/call bell point with 3x1.5 sqmm FRLS PVC insulated stranded copper conductor single core wire for phase, neutral and earth in concealed FRLS PVC conduit, with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification.				
	1.7.1	Short Point	Point	266.00	73	19418.00
	1.7.2	Medium Point	Point	424.00	58	24592.00
	1.7.3	Long Point	Point	588.00	38	22344.00
02	1.8	Wiring for twin control light point with 3x1.5 sqmm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)	Point	420.00	52	21840.00
03	1.9	Extra for providing and fixing light plug point on board in concealed FRLS PVC conduit point wiring with modular type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of base and cover plate and G.I. box etc. as per specification.	Point	216.00	70	15120.00
04	1.10	Wiring for light plug point with 3x2.5 sqmm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.				
	1.10.2	Medium Point	Point	659.00	12	7908.00
	1.10.3	Long Point	Point	922.00	36	33192.00
	1.10.4	Extra Long Point I	Point	1302.00	26	33852.00
05	1.11	Wiring for power plug point with 3x4 sqmm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit, along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.				

	SOR Item no.	PARTICULARS	UNIT	RATE (in Rs.)	For 01 Block H-Type (12 Nos. Flate)	AMOUNT (in Rs.)
	1.11.3	Long Point	Point	1350.00	12	16200.00
	1.11.4	Extra Long Point I	Point	1807.00	12	21684.00
	1.11.5	Extra Long Point II	Point	2315.00	12	27780.00

	SOR Item no.	PARTICULARS	UNIT	RATE (in Rs.)	For 01 Block H-Type (12 Nos. Flate)	AMOUNT (in Rs.)
06	1.13	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, wire in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)				
.	1.13.2	3 X 2.5 sq. mm in 20mm conduit	Mtr	111.00	390	43290.00
	1.13.3	6 X 2.5 sq. mm in 25mm conduit	Mtr	172.00	175	30100.00
	1.13.6	3 X 4 sq. mm in 25mm conduit	Metre	145.00	25	3625.00
	1.13.13	6 X 6 sq. mm in 32mm conduit	Mtr	312.00	310	96720.00
07	1.15	Supplying and fixing of following sizes FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with accessories in concealed complete as per specification and IS: 9537 (2000 Part 5)				
	1.15.2	25 mm	Mtr	53.00	324	17172.00
08	3.11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit/ PVC casing capping as per specification and IS 694 (2010)				
	3.11.27	1 x 6 sq. mm	Metre	44.00	20	880.00
09	3.13	Supplying and drawing following grade co-axial TV wire FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ concealed Steel/PVC conduit as per specification and IS: 694 (2010)				
	3.13.1	RG-6 grade	Mtr	14.00	360	5040.00
10	4.4	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as per specification.				
	4.4.1	75mmX75mm (1/2 Module)	Each	99.00	48	4752.00
11	5.4	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as per specification.				
	5.4.9	Fan regulator (Two module size) electronic stepped type moving all rounds	Each	223.00	24	5352.00
	5.4.16	T.V. antenna socket outlet	Each	74.00	24	1776.00
	5.4.18	25/32 amp A.C. Starter switch	Each	246.00	12	2952.00

	SOR Item no.	PARTICULARS	UNIT	RATE (in Rs.)	For 01 Block H-Type (12 Nos. Flate)	AMOUNT (in Rs.)
12	5.9	Providing and fixing round/ hexagonal fan box (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab etc. as per specification.	Each	42.00	24	1008.00

	SOR Item no.	PARTICULARS	UNIT	RATE (in Rs.)	For 01 Block H-Type (12 Nos. Flate)	AMOUNT (in Rs.)
13	6.1	Supplying, installation, testing and commissioning of following sizes ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, earthing etc. complete as required. P.F. should be greater than 0.9, with BEE Star rating from 3 star and above, IS: 374:2019 including all amendments.				
	6.1.3	1200 mm sweep	Each	1697.00	24	40728.00
14	6.7	Supplying, installation, testing and commissioning of 250/ 300 mm sweep 1400 rpm medium duty (continuous running) exhaust fan in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9	Each	1334.00	24	32016.00
15	6.12	Providing and fixing phenolic laminated sheet cover of 180 mm dia 3 mm thick on the fan box etc. as per specification. (If provided at the time of installation of celing fan)	Each	56.00	24	1344.00
16	6.17	Supplying, fixing, testing and commissioning of following LED lamps with inbuilt electronic driver heat sink and all other accessories in existing holder/ luminaries as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio \geq 100 lumens /watt.				
	6.17.4	9 Watt	Each	143.00	36	5148.00
17	6.19	Supplying, installation, testing and commissioning of following LED tube light fitting including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/ in false ceiling, including connection, earthing etc complete as per specification and IP20, P.F. should be greater than 0.9. LED chip efficacy ratio \geq 100 lumens /watt.				
	6.19.3	18/20 watt {4 feet}	Each	443.00	71	31453.00
18	7.19	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and following depth made out of not less than 2 mm thick CRCA MS sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ammeters etc as per specifications including powder coating painting but without busbars, switchgears and other accessories etc complete as per specification. (Only face area is to be measured)				
	7.19.1	Upto 300 mm deep	sqm	6818.00	3.92	26726.56

	SOR Item no.	PARTICULARS	UNIT	RATE (in Rs.)	For 01 Block H-Type (12 Nos. Flate)	AMOUNT (in Rs.)
19	7.2	Supply, installation, testing and commissioning of 4 pole (3 phase+neutral) aluminium bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as per specification				
	7.20.1	100 amp (20 x 5 mm)	Mtr.	717.00	2.00	1434.00
20	9.1	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc.as per specification, IS/IEC:60947-2 and Ics = 100% Icu				
	9.1.1	3 pole MCCB, 25-63A, Fixed Thermal Release, 10KA	Each	1483.00	14.00	20762.00
	9.1.6	3 pole MCCB, 160A, Adjustable Thermal - Magnetic Release, 25KA	Each	7623.00	02.00	15246.00
21	9.2	Supplying and fixing on surface/ recess following way, 240 volts SP&N MCB distribution board of sheet steel phosphatized and powder painted complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator)				
	9.2.5	4 way, Double door	Each	784.00	01	784.00
22	9.4	Supplying and fixing on surface/ recess horizontal type following way, 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, including inter connections, earthing etc. as per specification. (But without MCB/RCCB/Isolator.				
	9.4.1	4 way Double door	Each	1317.00	12	15804.00
23	9.11	Supplying and fixing SP MCB, 240 volts, 'C' curve , suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.11.2	6 Amps to 32 Amps	Each	148.00	98	14504.00
24	9.12	Supplying and fixing DP MCB, 240 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.12.2	6 amps to 32 amps	Each	411.00	02	822.00

	SOR Item no.	PARTICULARS	UNIT	RATE (in Rs.)	For 01 Block H-Type (12 Nos. Flate)	AMOUNT (in Rs.)
25	9.16	Supplying and fixing TP&N MCB, 440 volts , 'C'curve, suitable for lighting and other load sin the existing MCB DB complete with connections, testing and commissioning etc. as perspecification.				
	9.16.5	63 Amp	Each	1316.00	12	15792.00
26	10.15	Providing and fixing following rating current transformer in existing cubical panel including, connections, testing and commissioning etc. as per specification.				
	10.15.2	100/5 amps	Each	349	8.00	2792.00
27	10.17	Providing and fixing penal mounting 230 volt LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	94	6.00	564.00
28	10.19	Providing and fixing penal mounting following rating digital type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.				
	10.19.2	0-100 amps	Each	828	2.00	1656.00
29	10.2	Providing and fixing penal mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.				
	10.20.2	Digital type	Each	835	2.00	1670.00
30	10.21	Providing and fixing penal mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as per specification.				
	10.21.1	For voltmeter	Each	189	2.00	378.00
	10.21.2	For ammeter	Each	207	2.00	414.00
31	12.19	Providing maintenance free earthing with following size GI pipe including making bore pit of minimum 150 mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipe shaving outer pipe of 80 mm dia and inner pipe of 50 mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification.				
	12.19.2	With 2 meter long GI Pipes and 25 kg back filling compound.	Each	8222	4.00	32888.00

	SOR Item no.	PARTICULARS	UNIT	RATE (in Rs.)	For 01 Block H-Type (12 Nos. Flate)	AMOUNT (in Rs.)
32	12.16	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as per specification.	Metre	115.00	60	6900.00
33	14.1	Supplying and laying ISI marked double wall HDPE pipe (IS 14930 Part II) having corrugation on the outer wall and plan surface on inner wall in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as per specification.				
	14.1.3	90 mm outer dia and 75 mm Inner dia	Metre	203.00	03	609.00
34	14.4	Supplying and laying following size RCC Hume pipe class NP-2 (in standard length of 2 metre) with collar in ground below road, path etc at a depth not less than 50 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as per specification.				
	14.4.3	200 mm dia	Metre	449.00	40	17960.00
35	15.3	Supplying and laying following sizes one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as per specification, IS: 1554 (1988, Part 1) & IS: 7098 (1988, Part 1)				
	15.3.13	3.5 x 50 sq. mm.	Metre	173.00	150	25950.00
36	15.23	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as per specification. .				
	15.23.14	3½ X 50 sq. mm (32 mm)	Each	168.00	12	2016.00
37	20.6	Supplying and erection of angle/channel iron cross arms/ bracket/ other fitting of approved size and shape including drilling of holes for insulator pins, bolts and nuts etc as per specification.	kg	77.00	20	1540.00
		Total				774497.56
		Say				7.75 Lakh

	SOR Item no.	PARTICULARS	UNIT	RATE (in Rs.)	For 01 Block H-Type (12 Nos. Flate)	AMOUNT (in Rs.)
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BOQ FOR CONSTRUCTION OF BIODIGESTER NON SOR ITEMS AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)							
S.No.	Item No.	Description Of Item	Unit	Nos	Quantity	Rate	Amount
1	2	5	6	7	11	12	13
		from mp pwd sor 2024					
2	30.7	Providing and Installing bio digester unit based on DRDO technology made of fiber reinforced plastic having composition and the technical specifications such as:Parentage of fiber glass (glass content in fiber glass should be minimum 30%) :- 33.33%Water absorption (as per ASTM) : - 0.30%Flammability :- as per ASTM Tensile strength :-115 MPA Specific gravity at 25 degree centigrade :-1.45 IZOD impact strength :- 65 KJ/M2 Heat defection/distort temperature :- 65 deg C Corrosion resistance (non corrosive) fitted with Inlet pipe size rigid PVC :-100mm Outlet pipe size rigid PVC :-80mm Gas outlet rigid PVC with valve :- 20mm Bacteria immobilization PVC matrix (on all partition) and capacity :-					
	30.7.9	UPTO 200 USER SIZE (4.0m X 2.0m X 1.25 m) Capacity of bio-digester :- 10,000 liters Area of top, bottom and side walls:-31.00 sq.m.Area of partition walls :- 10.00 sq.m Total weight of FRP:- 462.60 kg Bacteria inoculums quantity :- 3000 liters Minimum thickness of side walls/top and bottom :- 7mm Number of inside partitions:- 4 Minimum thickness of partition wall :-4mm.					
		UPTO 200 USER					
			each	1	1.0	632426.00	632426.00
						TOTAL	632426.00

BOQ FOR CONSTRUCTION OF CAMPUS COMPOUND WALL FOR REDEVELOPMENT PHASE-II GAD H-TYPE,JAGDALPUR, DISTT. BASTAR(C.G.)						
S.No.	Item No.	Description Of Item	Unit	Quantity	Rate	Amount
1	2	3	4	9	10	11
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.				
	1.1.1	In all types of soils.				
			Cum	118.51	185.00	21924.00
2	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.	Cum			
				152.73	65.00	9927.00
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)				
				10.81	2659.00	28736.00
4	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:				
	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.	Sqm			
		Boundary Wall PCC Work				
				139.66	139.00	19413.00
	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape	sqm			
				51.60	297.00	15325.00
5	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:				
	3.12.2	Thermo-Mechanically treated bars FE 500D	Kg.			
		footing(7 nos 10MM DIA both way)		3428.48	54.5	186852.16

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S.No.	Item No.	Description Of Item	Unit	Quantity	Rate	Amount
1	2	3	4	9	10	11
6	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.				
	3.3.2	M-25 Grade	Cum			
				42.86	4298.00	184195.00
7	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:				
				6.33		
				6.33	97.50	617.00
8	7.25	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:				
	7.25.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)		33.00		
				33.00	3263.00	107679.00
9	9.45	Providing and placing in position angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for required length and drilling holes upto 10 mm dia as per requirement including priming coat with red oxide zinc chromate primer and placing the post/ strut in cement concrete block.				
			Kg	346.50	69.5	24082.00
10	9.40	Providing and fixing concertina coil fencing with required dia 610 mm (having 50 nos. round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart tied with G.I. staples and G.I. clips to retain horizontal including necessary bolts or G.I. barbed wire tied to angle iron all complete as per direction of Engineer-in charge with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)				
		Boundary Wall		110.00		
			Rm	110.00	164	18040.00

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S.No.	Item No.	Description Of Item	Unit	Quantity	Rate	Amount
1	2	3	4	9	10	11
11	11.2	Providing and making 12mm thick cement plaster of mix:				
	11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	Sqm			
		Boundary Wall				
				330.00	91.50	30195.00
12	14.22	Painting on new work (two or more coats) to give an even shade with:	Sqm			
	14.22.1	Satin synthetic enamel paint		66.00		
				66.00	55.00	3630.00
13	14.15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:	Sqm			
	14.15.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)				
				396.00		
				396.00	56.00	22176.00
14		Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above plinth level, Consisting of columns trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.	Sqm			
	9.3	20KG/SQM(for gate)		600.00	88.5	53100.00
		For 100 mtr			TOTAL	725891.16
		Hence for 120 mtr Boundry wall			120	871069.392

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S.No.	Item No.	Description Of Item	Unit	Quantity	Rate	Amount
1	2	3	4	9	10	11
15	9.16.02	Providing and fixing M.S. frames of doors,windows,ventilators and cupboards joints mitres and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm og grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.Angle-iron frames				
		Gate	1			
				SQM	73.50	₹ 9923/-
				TOTAL		880991.89
					Say	8.81

BOQ FOR SEWERAGE NETWORK WORK AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)						
S.No.	Item No.	Description Of Item	Unit	Quantity	Rate	Amount
1	2	5	6	11	12	13
1	20.3	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm ² , water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	20.3.1	100x100 mm size P type	Each	8	1339.00	10712.00
	20.3.2	150 x 100 mm size P type.	Each	8	1397.00	11176.00
2	20.6	Providing, lowering, laying, aligning, fixing in position at and jointing at all level/ depths ISI marked HDPE pipes of PE-100 grade and PN 6 for sewer application as per IS 14333-1996 (amended upto date) in trenches in complete including all material, labour, testing and commissioning as per direction of Engineer.				
	20.6.2	150 mm dia	Metre	100.00	771.00	77100.00
	20.6.3	200 mm dia	Metre	150.00	1165.00	174750.00
3	20.7	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	20.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
		With well burnt bricks	Each	4	6703	26812.00
	20.7.2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :				
		With well burnt bricks	Each	8.00	14448	115584.00
4	20.8.1	Extra for depth for manholes				
	20.8.1	Size 90x80 cm	Metre	3.60	3755	13518.00
	20.8.2	Size 120x90 cm	Metre	2.40	4473	10735.00

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7	20.12	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as perspecifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	Each	16.00	171	2736.00
					TOTAL	443123

BOQ FOR CONSTRUCTION OF BOUNDARY WALL & GARDEN DEVELOPMENT WORK AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)						
S.N.	SOR I/NO	PARTICULARS	QTY	UNIT	RATE	AMOUNT
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and inequalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).				
			800.00	Sqm	7.20	5760.00
		GARDEN DEVELOPMENT				
16	22.1	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly leveling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).				
			240.00	Cum	115.00	27600.00
17	22.2	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 5 km (earth measured in stacks will be reduced by 20% for payment).				
			160.00			
			160.00	Cum	201.00	32160.00
18	22.4	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment).				
			15.00			
			15.00	Cum	236.00	3540.00
19	4.1 Road SOR	Granular Sub-base as per Table:- 400-1 Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401				
	(B)	By Mix in place method				

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		Disintegrated rock i.e moorum having CBR value not less than 20 and P.I. and L.L. not more than 6 and 20 respectively. (For Village roads only)				
			9.00			
			9.00	Cum	460.00	4140.00
20	4.15 Road SOR	Providing & laying precast interlocking concrete blocks of minimum compressive strength of 300 kg/sq.cm and approved size , shape/ pattern over coarse sand bed of thickness upto 40 mm and joints thick filled with fine sand including leveling with surface vibrator, temping and sweeping etc. complete as per IRC-SP-63-2004.				
	(A)	60mm thick Plain precast interlock concrete block	60.00			
			60.00	sqm	497.00	29820.00
21	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	9.00			
			9.00	Cum	2970.00	26730.00
22	22.25	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:				
	22.25.4	Carpet Grass (Well Developed)	200.00	Sqm	263.00	52600.00
23	Non Sor	Foxtell Palm (25x25)	5.00	each	900.00	4500.00
24	Non Sor	Niriyam(8x10)	5.00	each	70.00	350.00
25	Non Sor	Hamelia Paths Dwarf (8x10)	5.00	each	85.00	425.00
26	Non Sor	Mini Almanda(8x10)	5.00	each	80.00	400.00
27	Non Sor	Fonix Palm(18x18)	5.00	each	750.00	3750.00
28	Non Sor	Silver Yuca(21x21)	5.00	each	700.00	3500.00
29	Non Sor	Lantana(8x10)	5.00	each	75.00	375.00
30	Non Sor	Spethodea Campanulata 21x21	5.00	each	950.00	4750.00
31	Non Sor	Plumeria Dwarf (25x25)	5.00	each	700.00	3500.00
32	Non Sor	Cordia Sabstina(25x25)	5.00	each	950.00	4750.00
33	Non Sor	Tikoma Orange(8x10)	5.00	each	95.00	475.00
				Grand Total		209125.00
				Say as Rs		2.09

**BOQ FOR REDEVELOPMENT WORK PHASE-II GAD H-TYPE,
JAGDALPUR, DISTT. BASTAR(C.G.)**

S. No.	I. No.	PARTICULAR	QTY	UNIT	RATE	AMOUNT
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).	360.00	sqm	7.20	2592.00
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.				
	1.1.1	In all types of soils.				
			263.74	cum	185.00	48791.16
	1.26	Carriage by mechanical transport upto 5 km lead:				
	1.26.1	Earth				
		As per Excavated Qty	263.74	cum	111.00	29274.70
4	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).				
			46.15	cum	2659.00	122718.17
5	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.				
	3.3.2	M-25 Grade				
			155.87	cum	4298.00	669929.26
6	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:				
		Ground Floor				
		Rcc work above plinth	46.14	cum	97.50	4499.04
		First Floor				
		PCC	1.92			
		RCC	46.25			
			48.17	cum	195.00	9392.76
		Second Floor				
		PCC	1.92			
		RCC	46.25			
			48.17	cum	292.50	14089.14
		Terrace Floor				
		RCC	10.44	cum	390.00	4071.60
7	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:				
a)	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.				
		PCC work				
			276.70	sqm	139.00	38461.30

b)	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape				
			509.20	sqm	297.00	151232.40
c)	2.1.8	Beams, lintels, cantilevers & walls				
			718.33	sqm	202.00	145102.66
d)	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)				
			591.24	sqm	235.00	138941.40
e)	2.1.13	Weather shade, chhajja, Cornices and mouldings				
			57.24	sqm	294.00	16828.56
f)	2.1.15	Stair cases of all types excluding spiral and folded plate type, including risers and landings				
			41.25	sqm	230.00	9487.50
g)	2.1.2	Wall of any thickness including attached pilasters, buttresses etc. in super structure.				
			39.00	sqm	228.00	8892.00
8		Extra for providing fixing and removing of propping from lower floor upwards for the concreting. Propping should be provided two floors below. The props of lower floor must be 50% of the props of the floor above including wedging etc. complete. In case propping is done in one floor below, only half the rate shall be paid.				
		As per Slab Area	255.00	sqm	17.00	4335.00
8	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:				
	3.12.1	Thermo-Mechanically treated bars FE 415 (Make:- Tata / Sail / Goel /Jindal /Gk or Equivalent)				
		Qty. of R.C.C. M 20	17145.70	Kg	54.50	934440.65
10	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.				
			334.42	Cum	371.00	124069.82
11	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.	2.24	cum	4237.00	9490.88
12	1.25	Diluting chemical emulsion (chlorpyrifos/ lindane) in water as per manufacturers recommendation and injecting for pre-constructional curative cum preventive anti-termite treatment:(Five year service guarantee bond to be signed by contractor) Surface treatment by spreading emulsion under floor, over the plinth area				
	1.25.1	before laying base concrete @ 5 litres / sqm				
		Plinth Area	200.00	Sqm	27.50	5500.00
13	1.22	Supplying chlorpyrifos/ Lindane emulsifiable concentrate of 20% in sealed containers including delivery as specified.	200.00	Ltr	208.00	41600.00

14	3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.	148.80	sqm	273.00	40622.40
15	1.25.2	Treatment of inside of plinth masonry wall on using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall below plinth protection at the interval of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	124.00	metre	19.00	2356.00
16	1.25.3	Treatment of outer side of plinth masonry wall using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall at the junction of floor at the interval of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand).	124.00	metre	13.50	1674.00
17	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:				
	7.5.3	Cement Mortar 1:5 (1 cement : 5 coarse sand)				
			6.56	cum	3,350.00	21969.30
18	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:				
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
		Ground Floor	174.51	cum	3263.00	569426.13
19	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:				
		Ground floor	48.83	cum	121.00	5908.19
		First Floor	48.83	cum	242.00	11816.38
		Second Floor	48.83	cum	363.00	17724.56
		Terrace Floor	28.03	cum	484.00	13564.58
20	7.11	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level:				
	7.11.4	Cement Mortar 1:4 (1 cement : 4 coarse sand)				
			370.08	sqm	382.00	141370.56
21	7.12	Extra for half brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level:				
		Ground Floor	123.36	sqm	11.00	1356.96
		First Floor	123.36	sqm	22.00	2713.92
		Second Floor	123.36	sqm	33.00	4070.88
22	7.20	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.	370.08	sqm	62.50	23130.00

23	8.1	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position.				
	8.1.1	Teak wood				
		Ground to Terrace				
			2.59	cum	114758.00	297454.94
24	8.7	Providing and fixing 35mm thick paneled or glazed or paneled and glazed shutter frames for doors excluding hinges and paneling. (Area of shutter to be measured without deducting paneling area)				
	8.7.1	Teak wood				
			57.33	sqm	2620.00	150204.60
	8.8	Providing and fixing 30mm thick paneled or glazed or paneled and glazed shutter frames for doors excluding hinges and paneling. (Area of shutter to be measured without deducting paneling area)				
	8.8.1	Teak wood				
			56.70	sqm	2256.00	127915.20
25	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.				
		25kg/sqm	2850.00	Kg	67.50	192375.00
26	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:) Make - Hindalco / Nalco or equivalent				
	9.47.1	For fixed portion				
		5kg/sqm	527.40	Kg	331.00	174569.40
27	9.47.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).	527.40	kg	338.00	178261.20
28	9.48	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	1054.80	kg	27.00	28479.60
29	9.51	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):				
	9.51.1	With float glass panes of 4 mm thickness				
			107.28	sqm	611.00	65548.08
30	9.34	Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.				
			72.54	sqm	791.00	57379.14

31	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.	378.00	each	72.50	27405.00
32	8.79	Providing and fixing antique/ SS finished brass sliding door bolt with necessary bolts, nuts and antique/ SS polished MS screw complete:				
	8.79.1	300x16mm	63.00	each	496.00	31248.00
33	8.80	Providing and fixing antique/ SS finished brass door latch with antique/ SS polished MS screw complete:				
	8.80.1	300 x16x5 mm	63.00	each	424.00	26712.00
34	8.81	Providing and fixing antique/ SS finished brass tower bolts (Barrel type) with antique/ SS polished MS screw complete:				
	8.81.1	250 x10 mm	39.00	each	297.00	11583.00
	8.81.3	150 x 10 mm	24.00	each	189.00	4536.00
		(Toilet door)				
35	8.84	Providing and fixing antique/ SS finished brass handles with antique/ SS polished MS screw complete:				
	8.84.1	125 mm	126.00	each	58.50	7371.00
36	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:				
	8.58.1	125x85x5.50 mm (Heavy Type)	189.00	each	245.00	46305.00
37	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.				
			666.00	sqm	86.00	57276.00
12.13		Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.				
	12.13.01	Size 600x600mm	470.64	sqm	1151.00	541706.64
38	12.9	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete. (Make:-RAK/ Nitco/Quitone /Kajariya /Orient or Equivalent) at any floor.				
	12.9.1	Size 300x300mm	81.48	sqm	692.00	56384.16

39	12.7	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall 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 matching pigment complete. (Make:-RAK/Nitco/Quitone /Kajariya /Orient or Equivalent) at any floor.				
	12.7.1	Size upto 200x300mm				
			258.30	sqm	587.00	151622.10
41	13.6	15mm thick Granite work (machine cut, table rubbed & mirror polished) for kitchen platform, vanity counters, window sills and similar locations of required size laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) including joints treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish.				
	13.06.01	Granite stone grey/pink				
			67.04	sqm	2466.00	165320.64
42	12.46	15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).				
	12.46.1	Granite stone grey/pink				
			50.70	sqm	1869.00	94758.30
43	12.51	Extra for nosing in steps and treads of Kota stone slab.				
			72.00			
			72.00	meter	69.50	5004.00
44	11.1	Providing and making 6mm thick cement plaster of mix:				
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)				
			718.42	sqm	87.00	62502.54
45	11.2	Providing and making 12mm thick cement plaster of mix:				
	11.2.2	In Cement Mortar 1:4 (1 cement : 4 fine sand)				
		Ground Floor				
		Total 12mm Plaster	2539.28	Sqm	103.00	261545.33
46	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:				
	11.3.2	In Cement Mortar 1:4 (1 cement : 4 fine sand)				
		Total 15mm Plaster	1206.98	sqm	120.00	144837.00
	11.9	Extra for providing and mixing water proofing materials in cement plaster work in proportion as recommended by manufacturer.				
		taking per 0.25 kg per sqmt	301.74	kg	43.50	13125.85
	14.12	Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 sqm) complete.				
			3257.70	sqm	23.00	74926.99

47	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.				
			4464.67	sqm	94.50	421911.32
48	14.11	Wall painting with acrylic luxury emulsion (plastic) paint of required shade to give an even shade. (Make Asian / ICI Dulux or Equivalent) at any floor				
	14.11.1	On new work (two or more coats)				
		Total	3257.70	sqm	52.50	171028.99
49	14.16	Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:				
	14.16.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm) (Make - Asian Ultima / ICI Dulux or Equivalent) with 07 year warranty.				
		As per 15mm Plaster	1206.98	sqm	74.50	89919.64
50	9.57	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.				
	9.57.02	SS Grade 304	16.20	R.M.		
			405.00	kg	525.00	212625.00
51	14.22	Painting on new work (two or more coats) to give an even shade with:				
	14.22.2	Premium synthetic enamel paint (Make - Asian / ICI Dulux or Equivalent)				
			462.80	sqm	47.00	21751.51
52	10.41	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				

			316.40	metre	68.00	21515.20
53	11.5	Neat Cement punning.				
			76.32	sqm	33.00	2518.56
54	4.13	Grading roof for water proofing treatment with:				
	4.13.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)				
			6.80	cum	3817.00	25955.60
55	4.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation:				
		i) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.				
		ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.				
			71.52	sqm	182.00	13016.64
					Total	7428043.00
					To Say	74.28

BOQ FOR RAIN WATER HARVESTING AT REDEVELOPMENT PHASE-II GAD H-TYPE,JAGDALPUR, DISTT. BASTAR(C.G.)

S.No.	Item No.	Description Of Item	Unit	Quantity	Rate	Amount
1	2	5	6	11	12	
(A)	Excavation for Foundations					
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.				
	1.1.1	In all types of soils.				
		Pit 1.3M Ø		4.00		
			cum	4.00	185	740.74
2	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.				
			cum	0.56	65	36.35357143
3	1.6	Extra for every additional lift of 1.5 m or part thereof.				
	1.6.1	All types of soils				
		Pit		1.46		
			cum	1.46	26.5	38.70703571
4	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)				
		Pit		0.50		
			cum	0.50	2659.00	1337.00
5	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.				
	3.3.2	M-25 Grade				
		for Pit cover		0.20		
			cum	0.20	4298.00	856.00
6	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:				
	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)				
		Shuttering for cover for Pit		1.33		
			sqm	1.33	235.00	312.00

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8	9.12 road sor	Laying Reinforced Cement Concrete Pipe NP4/prestrssed concrete pipe on first class bedding in single row . (Laying Reinforced cement concrete pipe NP4/prestrssed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets .)				
	B	1200 mm dia				
		for Pit		2.50		
			Meter	2.50	11783.00	29458.00
12	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.				
	21.1.1	All types of soil				
	21.1.1.4	200 mm dia.				
				6		
			meter	6	371.00	2226.00
13	21.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer –in-charge.				
	21.3.1	100 mm nominal size dia.				
				4		
			meter	4	454.00	1816.00
14	21.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) slotted pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer in-charge				
	21.4.1	100 mm nominal size dia.		4		
			meter	4	459.00	1836.00

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15	21.14	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).				
	21.14.1	Stone boulders of size range 5 cm to 20 cm, in recharge pit		0.38		
			cum	0.38	863.00	325.00
16	21.14.2	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders				
		At the base of Borewell		0.38		
			cum	0.38	806.00	304.00
17	21.14.3	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel				
		At the base of Borewell		0.38		
			cum	0.38	471.00	178.00
18	21.9	Gravel packing in tube well construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.				
		Rain water Harvesting		0.19		
			cum	0.19	1048.00	198.00
19	21.11	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of:				
	21.11.1	100 mm dia		2.00		
			EACH	2.00	182.00	364.00

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21	20.5	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
	20.5.2	150 mm dia. R.C.C. pipe	Metre	100	353.00	35300.00
22	20.7	Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	20.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
		With well burnt bricks	Each	2	6703.00	13406.00
24	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	3.1.5	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).				
				25.20		
			Cum	25.2	4073.00	102640.00
25	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.				
	1.1.1	In all types of soils.		14.904		
		Pipes, cables etc. exceeding 80 mm dia.but not exceeding 300 mm dia.		30.00		
			Cum	44.904	185.00	8307.00
					total	199678.80

BOQ FOR EXTERNAL WATER SUPPLY WORK AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)

S.No.	Item No.	Description Of Item	Unit	Quantity	Rate	Amount
1	2	5	6	11	12	13
1	19.7	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete:				
	19.7.5	40 mm nominal outer dia pipes	metre	200.00	364	72800
	19.7.6	50 mm nominal outer dia .Pipes.	metre	120.00	471	56520
					S	
2	19.16	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):				
	19.16.3	40 mm nominal bore	each	4.00	596	2384
	19.16.4	50 mm nominal bore	each	2.00	762	1524
3	19.47	Constructing masonry Chamber 30x30x50 cm, inside with modular well burnt clay bricks of 35 kg/cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design :				
			each	10.00	754	7540
						140768.00

BOQ FOR BOREWELL AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)						
S.No.	I. No.	PARTICULAR	QTY	UNIT	RATE	AMOUNT
1	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.				
	21.1.1	All types of soil				
	21.1.1.3	150 mm dia.	90.00	metre	339.00	30510.00
2	21.2	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge beyond 90 metre & upto 150 metre depth below ground level.				
	21.2.2	Rocky strata including Boulders.				
	21.2.2.3	150 mm dia.	40.00	metre	424.00	16960.00
3	21.5	Supplying, assembling, lowering and fixing in vertical position in bore well, ISI marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per IS: 1239 (Part-1&Part-2) 1992 with 1vth revision (Up-to-date amendments), of reputed & approved make, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer- in-charge.				
	21.5.3	150 mm nominal dia	95.00	metre	1304.00	123880.00
4	21.11	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of:				
	21.11.3	150 mm dia	1.00	each	217.00	217.00
5	21.17	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well within the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable)	2.00	point	1502.00	3004.00
		Motor Pump				
6	23.3	Supplying, installation, testing and commissioning of Kirloskar/ CRI/ Crompton make submersible pump set for water supply system with submersible motor directly coupled to multi-stage submersible pump of specified discharge capacity, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as per specification.				
	23.3.4	3.0 HP, three phase	1.00	Each	22714.00	22714.00
7	23.5	Supplying and fixing of following sizes 'B' class G I pipe with all necessary Tee's, bends, sockets in the suction/ delivery line including cutting and threading etc. as per specification.				
	23.5.4	50 mm dia	50.00	Mtr.	441.00	22050.00
8	23.6	Supplying and fixing following dia HDPE pipe PE-80 Grade 8kg/sqcm) in single length in the suction/ delivery line of water supply pump etc. as per specification.				
	23.6.2	50 mm outer dia	250.00	MTR	118.00	29500.00

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9	23.7	Supplying and fixing of following sizes GM gate valve ISI mark in the suction/ delivery line etc. as per specification				
	23.7.4	50 mm dia	1.00	EACH	1058.00	1058.00
10	23.1	Supply, installation, testing and commissioning of L&T/Crompton Make 1-3 HP 1 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as per specification. a) Phase indicating lamps with fuses and toggle switches 1 set b) 1/2/3 HP 1 phase DOL starter with over load and no volt relay 1 No c) 25 A "C" curve DPMCB 1 No d) Voltmeter 0-250 V 1 set e) Ammeter 0-10 A 1 set.	1.00	Each	4030.00	4030.00
11	23.14	Supplying, laying and fixing Polycab/Finolex/CRI make following size submersible cable along with GI/PVC/HDPE pipe line or laid in ground etc as per specification and IS: 694 (2010). Submersible cable should be rust proof, safe from Oil/Grease and under water chemical/abrasion resistant.				
	23.14.3	3x4.0 sqmm	250.00	Mtr.	90.00	22500.00
12	23.8	Supplying and fixing of following sizes GM non return valve ISI mark in the suction/ delivery line etc. as per specification.				
	23.8.4	50 mm dia	2.00	Each	1246.00	2492.00
13	6.50	Providing and fixing wooden board of suitable size (18" x 24") for energy meter etc complete as per specification.	2.00	Each	123.00	246.00
14	9.16	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as Perspecification.				
	9.16.5	63 amp	2.00	Each	1316.00	2632.00
				Total :-		281793.00
				To Say:-		2.82

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BOQ FOR DRAIN AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)										
S.No.	Item No.	Description Of Item	Unit	Nos	Length L	Breadth B	Depth D	Quantity	Rate	Amount
1	2	5	6	7	8	9	10	11	12	13
1	3.20	contruction of RCC open drain 0.6x0.6 m inside dimension lined with 120mm thick RCC m-20 wall 120 mm thick M20 foundation over 100 mm thick (Av) levelling coarsing PCC M15 inc. excavation 'dressing of side and bottom, provision of HYSD reinforcement consisting 8 mm dia horizontal bar@150mm c/c and L shaped 8 mm vertical bar @150mm c/c (L=800mm) inc cutting bendng and binding wires and placing in position,providing shuttering and concreteing by using concrete mixer compaction by vibration etx complete as per drawing and technical specification	Cum							
2	3.20 (II)	Excavation in Soil (by Mechanical Means.) Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300.								
		Drain (600X800)		1	115			115.00		
						TOTAL		115.00	2592.00	298080.00
	3.25(ii)	Construction of RCC drain/chamber cover, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications excluding reinforcement. with RCC M-20		1	115	0.8	0.1	9.20		
			CUM					9.20	4146.00	38143.2
									Total	336223.20

BOQ FOR CONSTRUCTION OF C.C.ROAD FOR REDEVELOPMENT PHASE-II GAD H-TYPE,JAGDALPUR, DISTT. BASTAR(C.G.)					
S.No.	Item	Unit	Qty	Rate	AMT
1	Excavation for roadway in soil using including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto1000 meters as per relevant clauses of section 300.a) Ordinary/ Hard soil.				
	(SOR P/11 I/3.1)	Cum	162.00	237.00	38394
2	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).				
	(P.W.D. CSR P/22, I/3.1.2)				
		Cum	74.40		
			74.40	2051.00	152594.4
3	Granular Sub-base as per Table:- 400-1 Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401. Plant mix method (with Mechanically crushed stone only) For Sub-base cum drainage layer or upper sub-base (@) with (i) Grading- III Material				
	(P.W.D. CSR P/4.1)	Cum	146.40		
			146.40	1568.00	229555.2
4	Cement Concrete Pavement Construction of unreinforced, dowel jointed, plain cement concrete pavement as per IRC:58 over a prepared sub-base, coarse and fine aggregate conforming to IS:383 and graded as per table 600-3 mixed in a batching and mixing plant as per approved mix design, transported to site, laid with slip form / fixed form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing as per clause 602. (i) With Cement concrete grade M-30 and minimum cement content @ 375 kg/cum.				
	(P.W.D. SOR Road Work I/6.6.(ii))				
		Cum	180.00		
			180.00	4881.00	878580
5	Laying only of 60mm/80mm thick precast interlocking concrete blocks in any shape/pattern including and over 30 +/- 5 mm thick average coarse sand bed with joints of 3mm thick filled by fine sand including the cost of sand excluding cost of paver block, leveling with surface vibrator, temping and sweeping etc. complete for the work				
	(P.W.D. SOR Road Work I/4.14.(B))	SQM	288.00	113.00	32544
				Total	1331667.6
				SAY	13.32

BOQ FOR CONSTRUCTION OF GANTRY GATE AT REDEVLOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)						
SOR NO.	PARTICULARS	DEPTH/ HEIGHT	QTY	UNIT	RATE	AMOUNT
1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.					
1.1.1	In all types of soils.					
		2.20	14.26			
		TOTAL	14.26	Cum	185	2637
1.6	Extra for every additional lift of 1.5 m or part thereof.					
1.6.1	All types of soils					
		0.70	4.54			
		TOTAL	4.54	Sqm	26.5	120
2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:					
2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.					
		TOTAL	2.40	Sqm	139	334
3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.					
3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).					
		0.20	0.90			
		TOTAL	0.90	Cum	2970	2673
3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.					
3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).					
		TOTAL	8.64	Cum	4163	35968
3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:					
3.12.1	Thermo-Mechanically treated bars FE 415					
			1036.80			
		TOTAL	1036.80	kg	54.5	56506
8.7	Overhead Signs (Providing and erecting overhead signs with a corrosion resistant aluminum alloy sheet reflectorized with high intensity retro-reflective sheeting of Micro prismatic grade type with vertical and lateral clearance given in clause 802.2 and 802.3 and installed as per clause 802.6 over a designed support system of aluminum alloy or galvanized steel trestles and trusses of sections and type as per structural design requirements and approved plans)					

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8.7.1	Truss and Vertical Support					
		OR	2.71	Tonne	78148	211790
8.7.2	Aluminum alloy plate for over head sign					
		1.20	28.80			
		TOTAL	28.80	Sqm	10557	304042
8.9	Painting on Steel Surfaces (Providing and applying two coats of ready mix paint of approved brand on steel surface after through cleaning of surface to give an even shade)					
		1.20	57.60			
		TOTAL	57.60	Sqm	50	2880
					TOTAL	616950

BOQ ESTIMATE OF PUMP HOUSE
AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)

Pump Room

S. No.	I. No.	PARTICULAR	QTY	UNIT	RATE	AMOUNT
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.				
	1.1.1	In all types of soils.				
			16.73	cum	185.00	3094.68
2	1.6	Extra for every additional lift of 1.5 m or part thereof.				
	1.6.1	All types of soils				
		Footing	2.70	cum	26.50	71.55
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).				
			2.10	cum	2659.00	5589.22
4	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.				
	3.3.1	M-20 Grade				
			6.80	Cum	4231.00	28787.72
5	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:				
		Above Plinth	2.46	cum	97.50	240.24
6	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:				
A	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.				
			22.88	sqm	139.00	3180.32
B	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape				
		Column up to Slab	13.20	sqm	297.00	3920.40
C	2.1.8	Beams, lintels, cantilevers & walls				
			9.24	sqm	202.00	1866.48
D	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)				
		Slab	7.84	sqm	235.00	1842.40
E	2.1.13	Weather shade, chhajja, Cornices and mouldings				
			2.59	sqm	294.00	761.46
7	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:				
	3.12.2	Thermo-Mechanically treated bars FE 500D				
		Qty. of R.C.C. M 20	680.40	Kg	54.50	37081.80

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8 (A)	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.				
		Below Floor	2.30	Cum	371.00	854.78
(B)	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.				
			10.29	cum	65.00	668.59
9	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.	0.09	cum	4237.00	372.86
10	3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.	5.76	sqm	273.00	1572.48
11	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:				
	7.5.3	Cement Mortar 1:5 (1 cement : 5 coarse sand)				
			1.24	cum	3350.00	4167.40
12	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:				
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)				
			4.46	cum	3263.00	14546.45
13	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	4.46	cum	121.00	539.42
14	8.1	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position.				
	8.1.2	Sal, bijasal, benteak, khair, haldu				
		Ground to Terrace				
		Main Door	0.04			
			0.04	cum	61051.00	2530.73
15	8.12	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.				
	8.12.2	35 mm. thick (single leaf)				
			1.89			
			1.89	sqm	2005.00	3789.45
16	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.				
		Window	2.25	sqm		
			56.25	Kg	67.50	3796.88

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17	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:				
	9.47.1	For fixed portion				
		Door Frame				
		Window	11.25			
			11.25	Kg	331.00	3723.75
18	9.47.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/neoprene gasket required (Fittings shall be paid for separately).				
		Window	11.25	Kg	338.00	3802.50
19	9.48	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.	22.50	kg	27.00	607.50
20	9.51	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):				
	9.51.1	With float glass panes of 4 mm thickness	2.25	sqm	611.00	1374.75
21	9.34	Providing and fixing stainless wire gauge of average width of aperture 1.56mm with wire of 0.35mm to existing steel door, window shutter frames with necessary M.S. strip beading etc. complete.				
		50% opening of Window	1.13	sqm	791.00	889.88
22	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.	6.00	each	72.50	435.00
23	8.137	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc complete.				
	8.137.1	300mm	1.00	each	238.00	238.00
24	8.138	Providing and fixing stainless steel door latch with 12mm rod, 2.5mm thick flap, necessary stainless steel screws etc complete.				
	8.138.1	300mm	1.00	each	92.50	92.50
25	8.139	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.				
	8.139.1	250 x10mm	1.00	each	97.00	97.00
26	8.141	Providing and fixing Stainless steel "D" shape door handles made of 10mm dia rod with necessary stainless steel screws etc complete.				
	8.141.3	125 mm	2.00	each	42.00	84.00
27	8.132	Providing and fixing stainless steel butt hinges IS : 12817 marked with necessary stainless steel screws etc complete.				
	8.132.2	125x2.5mm (heavy)	3.00	each	76.50	229.50
28	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.				

DPR - H Type Quarters, Redevelopment Project - Chandani Chowkh Phase-II

			26.64	sqm	86.00	2291.04
29	12.3	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.				
	12.3.2	50 mm thick				
		Room	5.76	sqm	254.00	1463.04
30	11.1	Providing and making 6mm thick cement plaster of mix:				
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)				
			7.98	Sqm	87.00	694.26
31	11.2	12mm thick cement plaster of mix:				
	11.2.4	In Cement Mortar 1:5 (1 cement : 5 fine sand)				
		Total 12mm Plaster	29.51	Sqm	96.50	2847.23
32	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:				
	11.3.4	In Cement Mortar 1:5 (1 cement : 5 fine sand)				
		Total 15mm Plaster	33.83	sqm	113.00	3822.23
33	14.90	Distempering with acrylic washable distemper to give an even shade.				
	14.9.1	On new work (Two or more coats)				
			37.49	sqm	38.00	1424.43
34	14.16	Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:				
	14.16.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)				
		As per 15mm Plaster	33.83	sqm	74.50	2519.96
		Door	5.25	sqm	469.00	2462.25
35	14.22	Painting on new work (two or more coats) to give an even shade with:				
	14.22.2	Premium synthetic enamel paint				
			8.29	sqm	47.00	389.51
36	10.41	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
			15.70	metre	68.00	1067.60
37	11.5	Neat Cement punning.				
			2.22	sqm	33.00	73.26
					Total :-	149904.50
					To Say	1.50

BOQ FOR SANITARY AND WATER SUPPLY WORK AT REDEVELOPMENT PHASE-II GAD H-TYPE,JAGDALPUR, DISTT. BASTAR(C.G.)

Item No.	Nomenclature(Particulars)	Unit	S.O.R. Rate	Qty	Amount
1	2	3	4	5	6
1	Item No. 19.5.1				
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. CONCEALED WORK including cutting chases and making good the walls etc. a) 15 mm nominal outer dia .Pipes.	r/m	133.00	100.00	13300.00
2	Item No. 19.5.3				
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. CONCEALED WORK including cutting chases and making good the walls etc. a) 25 mm nominal outer dia .Pipes.	r/m	213.00	144.00	30672.00
3	Item No. 19.6.6				
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This included jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. EXTERNAL WORK. 50 mm nominal outer dia pipes	r/m	476.00	100.00	47600.00
4	Item No. 18.76.1				
	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. a. 75mm dia Make: (Supreme/Finolex)	r/m	182.00	96.00	17472.00
5	Item No. 18.76.2				
	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. s b. 110mm dia Make: (Supreme/Finolex)	r/m	267.00	72.00	19224.00
6	Item No. 18.77.1.1				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex / Supreme including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. G- Tee with Door (a) 75mm dia Make: (Supreme/Finolex)	no	113.00	24.00	2712.00

Item No.	Nomenclature(Particulars)	Unit	S.O.R. Rate	Qty	Amount
1	2	3	4	5	6
7	Item No. 18.77.1.2				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. G- Tee with Door (b) 110mm dia	no	154.00	24.00	3696.00
8	Item No. 18.77.1.1				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. E- Plain Bend of 87.5 degree (a) 75mm dia Make: (Supreme/Finolex)	no	113.00	12.00	1356.00
9	Item No. 18.77.1.2				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. E- Plain Bend of 87.5 degree (b) 110mm dia Make: (Supreme/Finolex)	no	154.00	12.00	1848.00
10	Item No. 18.77.6				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex / Supreme including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. O- Nahani Trap (b) 63mm dia Make: (Supreme/Finolex)	no	90.50	32.00	2896.00
11	Item No. 19.15				
	Providing and fixing stainless steel Nahani trap jali of approved make/quality.	no	51.00	32.00	1632.00
12	Item No. 18.77.1.1				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. C- Bend with door of 87.5 degree a. 75mm dia Make: (Supreme/Finolex)	no	113.00	10.00	1130.00
13	Item No. 18.77.1.2				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. C- Bend with door of 87.5 degree b. 110mm dia Make: (Supreme/Finolex/ASTRAL)	no	154.00	10.00	1540.00
14	Item No.18.77.3.2				
	Providing and fixing PVC fitting for pipes for soil waste / rain water drainage disposal of superior Indian Make Finolex / Supreme including jointing with rubber ring adhesive lubricant, solvent cement etc. complete. N- Vent Cowel (b) 110mm dia Make: (Supreme/Finolex/ASTRAL)	no	44.00	4.00	176.00

Item No.	Nomenclature(Particulars)	Unit	S.O.R. Rate	Qty	Amount
1	2	3	4	5	6
15	Item No. 19.16.1				
	Providing and fixing in position best Indian make gun metal high pressure full way or Gate valve (peets Pattren) with iron wheel head complete. (Make - Surya Gold / Neta) (c) 25 mm dia	no	436.00	24.00	10464.00
16	Item No. 19.16.4				
	Providing and fixing in position best Indian make gun metal high pressure full way or Gate valve (peets Pattren) with iron wheel head complete. (Make - Surya Gold / Neta) (e) 50 mm dia	no	762.00	10.00	7620.00
17	Item No. 18.1.3				
	Providing and fixing water closet squatting pan (Indian type W.C. pan), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required : White Orissa pattern W.C. pan of size 580x440 mm. Make (Hindware / Parryware/JAQUAR)	no	2899.00	12.00	34788.00
18	Item No. 18.17.2				
	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required : i) Flat Back (White) - 550X400 mm (Make- Hindware / Parryware/JAQUAR)	no	1408.00	24.00	33792.00
19	18.22.2				
	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink without drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :- A waste pipe upto nahni trap.560x410 mm bowl depth 215 mm.(Make - Nirali/ Neel kanth)	no	6210.00	12.00	74520.00
20	Item No. 19.14.1				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:Short nose Bib cock (400 grams) (Make Hindware / Parryware/JAQUAR)	no	382.00	10.00	3820.00
21	Item No. 19.14.2				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:Long Nose Bib cock (500 grams) (Make Hindware / Parryware/JAQUAR)	no	455.00	24.00	10920.00
22	Item No. 19.14.4				

Item No.	Nomenclature(Particulars)	Unit	S.O.R. Rate	Qty	Amount
1	2	3	4	5	6
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: Piller Cock (400 grams) (Make Hindware / Parryware/JAQUAR)	no	398.00	24.00	9552.00
23	Item No. 19.14.10				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required Wall mixer with elegant knob (1400 grams) (Make Hindware / Parryware/JAQUAR)	no	1787.00	12.00	21444.00
24	Item No. 19.14.10				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required Hand shower set with arm (Make Hindware / Parryware/JAQUAR)	no	754.00	12.00	9048.00
25	Item No. 19.14.7				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required Angle valve for basin mixer and geyser points (450 grams) (Make Hindware / Parryware/JAQUAR)	no	382.00	24.00	9168.00
26	Item No. 19.14.14				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required Soap dish plate	no	163.00	12.00	1956.00
27	Item No. 19.14.16				
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required Towel rail (600mm long x 20mm dia)	no	338.00	12.00	4056.00
28	Item No. 20.3.2				
	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm ² , water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design : 150 x 100 mm size P type.	no	1397.00	12.00	16764.00
29	Item No. 19.6.9				

Item No.	Nomenclature(Particulars)	Unit	S.O.R. Rate	Qty	Amount
1	2	3	4	5	6
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This included jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete including excavation of trench up to 1.5 Mtr. Depth Laying 15 cm thick and 40 cm wide CC 1:5:8 with all jointing material coupler etc including testing refilling of soil etc. complete. (Make - Finolex / Astral) a) 100 mm dia (c.c. base 30cm wide) (Make Finolex/Supreme)	RMT	2325.00	36.00	83700.00
	TOTAL AMOUNT OF WATER SUPPLY			Total Rs.	476866.00

4.77

BOQ OF SUMP WELL
AT REDEVELOPMENT PHASE-II GAD H-TYPE, JAGDALPUR, DISTT. BASTAR(C.G.)

Sump Well

S. No.	I. No.	PARTICULAR	QTY	UNIT	RATE	AMOUNT
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.				
	1.1.1	In all types of soils.				
		For Sump	64.48	cum	185.00	11928.80
2	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).				
		For Sump	4.84	cum	2659.00	12858.92
3	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.				
	3.3.1	M-20 Grade				
		Base Slab	4.50			
		RCC Wall	4.64			
			3.44			
		Top Slab	2.97			
			15.55	cum	4231.00	65808.97
4	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:				
A	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.				
		For Base Slab	3.30	sqm	139.00	458.70
B	2.1.2	Wall of any thickness including attached pilasters, buttresses etc. in super structure.				
		RCC Wall	46.44			
			34.40			
			80.84	sqm	228.00	18431.52
C	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)				
		Top Slab	23.76			
			23.76	sqm	235.00	5583.60
5	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:				
	3.12.1	Thermo-Mechanically treated bars FE 415				
		Qty. of R.C.C. M 20	1399.86	Kg	54.50	76292.37

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6	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.				
		(Total Excavated Earth)	64.48			
		Deduct : PCC Work	-4.84			
		Deduct : Outer Size of sump	-35.64			
			24.00	cum	65.00	1560.26
9	4.10	Providing and laying three course damp proofing treatment in water reservoir, sump, tank etc., with bitumen felt and blown type petroleum bitumen at the rate of 1.6 Kg/sqm 1st, 3rd course and 2nd course with tar felt including applying priming coat at the rate of 0.25 litre per sqm and fillets and rounding corners, wherever required, complete.				
	4.10.1	Bitumen felt of type 2 grade 2 (Fibre base)				
		Wall Surface	15.00			
			12.00			
			27.00	sqm	321.00	8667.00
10	11.5	Neat Cement punning.	27.00	sqm	33.00	891.00
11	12.3	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.				
	12.3.2	50 mm thick				
		Above Slab				
		Top Slab	23.76			
			23.76	sqm	254.00	6035.04
12	20.15	Providing and fixing in position precast R.C.C. manhole cover and frame L D- 2.5 of required shape and approved quality				
	20.15.1	Rectangular shape 600x450mm internal dimensions	1.00	each	1031.00	1031.00
		Motor Pump				
6	32.101	Supplying of centrifugal type mono-block electric pump set for water supply system having following capacity three phase, 415 volts AC induction motor and pump as per specification.				
	32.101.2	5 HP, 750 LPM, 20 m head, suction size 80 mm, delivery size 65 mm	1.00	Each	15595.00	15595.00
7	23.5	Supplying and fixing of following sizes 'B' class G I pipe with all necessary Tee's, bends, sockets in the suction/ delivery line including cutting and threading etc. as per specification.				
	23.5.4	50 mm dia	50.00	Mtr.	441.00	22050.00
9	23.7	Supplying and fixing of following sizes GM gate valve ISI mark in the suction/ delivery line etc. as per specification				
	23.7.4	50 mm dia	1.00	EACH	1058.00	1058.00

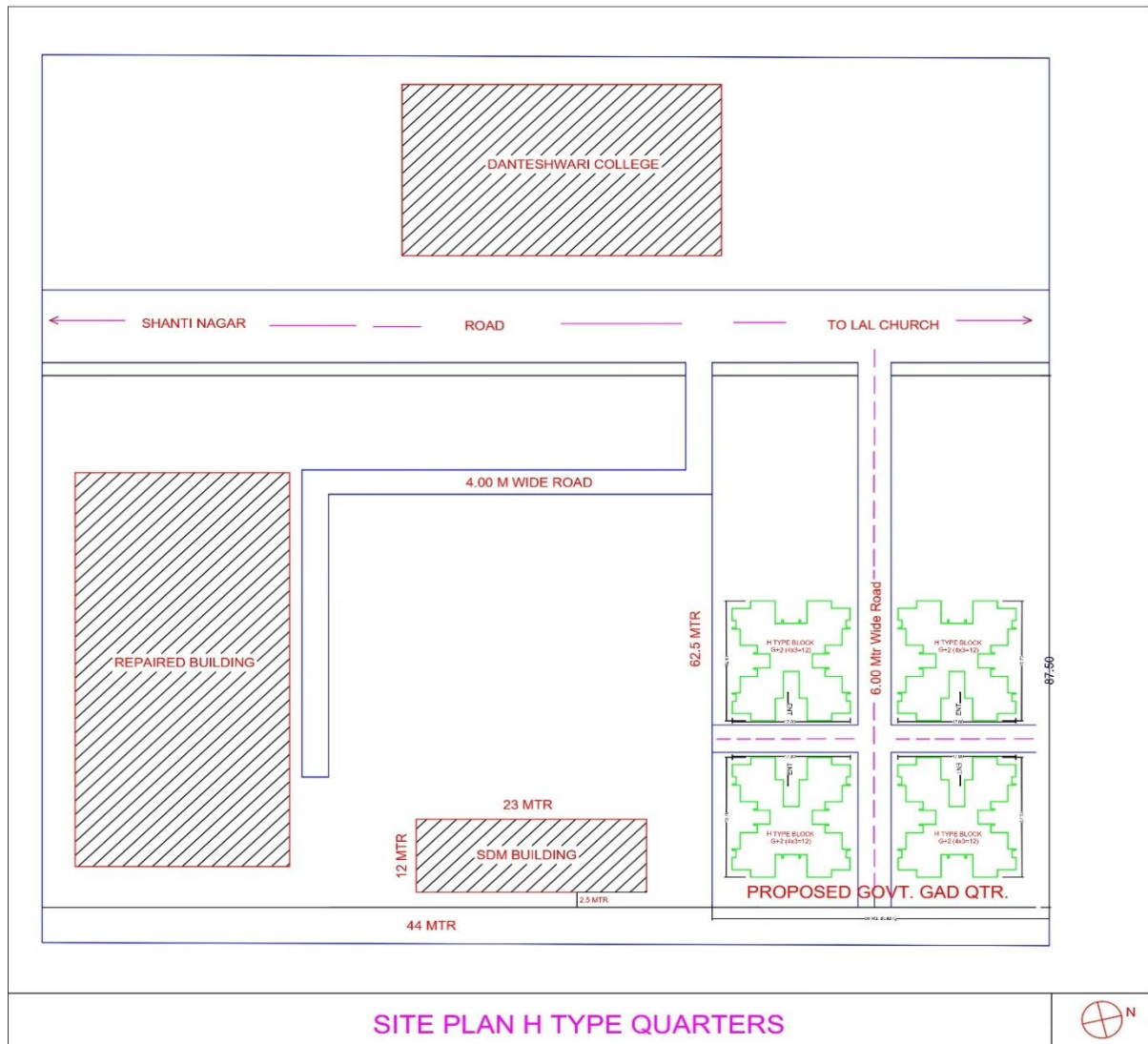
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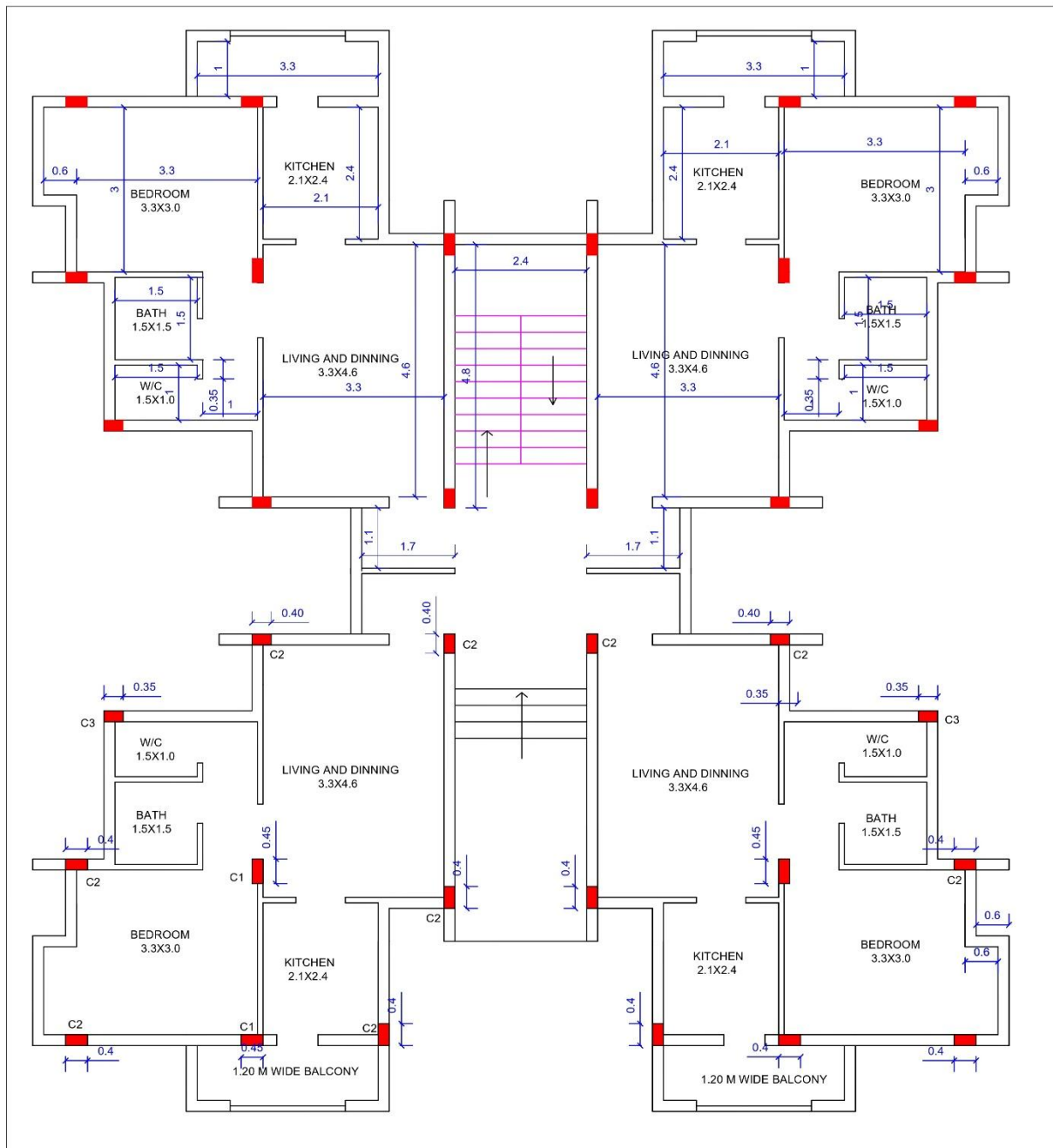
10	23.1	Supply, installation, testing and commissioning of L&T/Crompton Make 1-3 HP 1 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as per specification. a) Phase indicating lamps with fuses and toggle switches 1 set b) 1/2/3 HP 1 phase DOL starter with over load and no volt relay 1 No c) 25 A "C" curve DPMCB 1 No d) Voltmeter 0-250 V 1 set e) Ammeter 0-10 A 1 set.	1.00	Each	4030.00	4030.00
11	23.14	Supplying, laying and fixing Polycab/Finolex/CRI make following size submersible cable along with GI/PVC/HDFC pipe line or laid in ground etc as per specification and IS: 694 (2010). Submersible cable should be rust proof, safe from Oil/Grease and under water chemical/abrasion resistant.				
	23.14.3	3x4.0 sqmm	150.00	Mtr.	90.00	13500.00
12	23.8	Supplying and fixing of following sizes GM non return valve ISI mark in the suction/ delivery line etc. as per specification.				
	23.8.4	50 mm dia	2.00	Each	1246.00	2492.00
13	6.50	Providing and fixing wooden board of suitable size (18" x 24") for energy meter etc complete as per specification.	2.00	Each	123.00	246.00
14	9.16	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as Perspecification.				
	9.16.5	63 amp	2.00	Each	1316.00	2632.00
				Total :-		271150.19
				To Say :-		2.71

ANNEXURE 2

(Drawings)

Architecutral Drawings

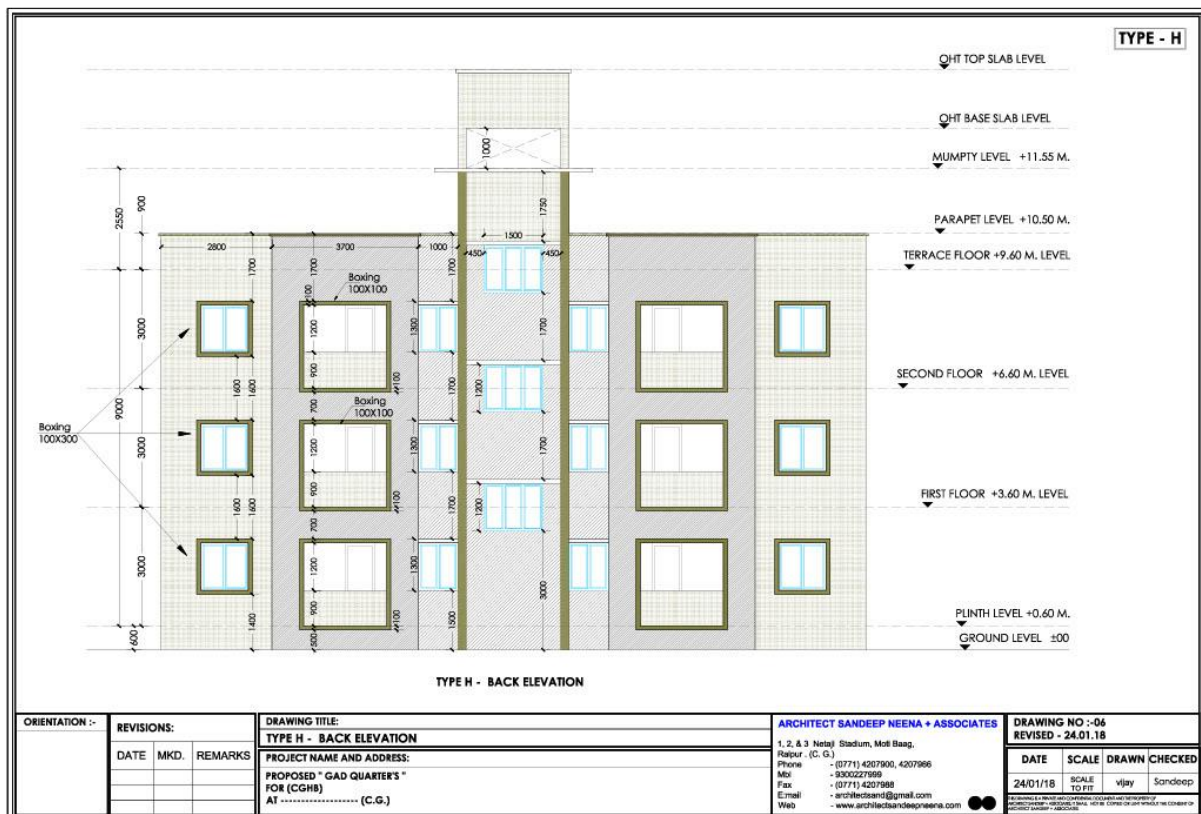




TYPICAL FLOOR PLAN – H-Type Quarters

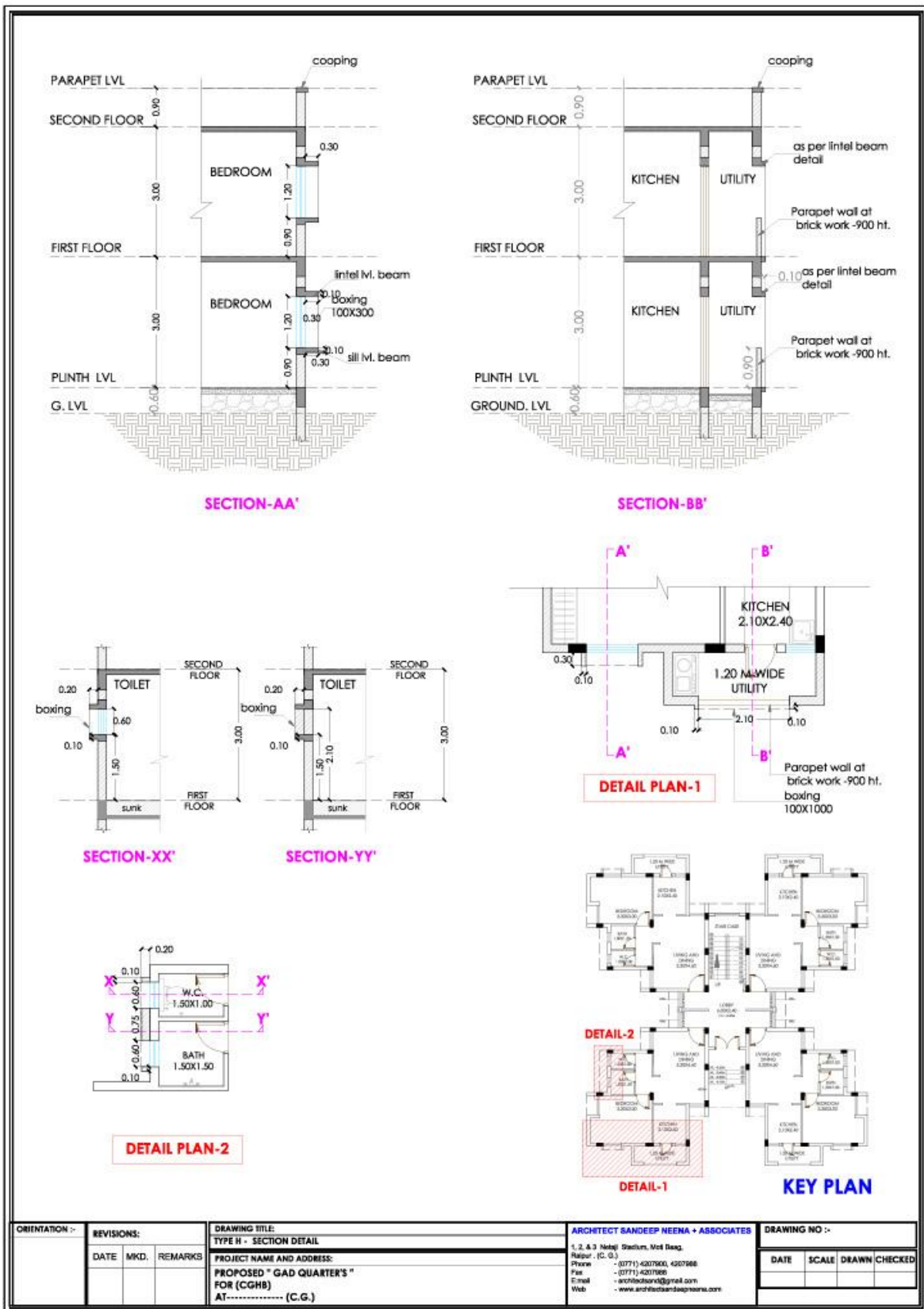


Front Elevation

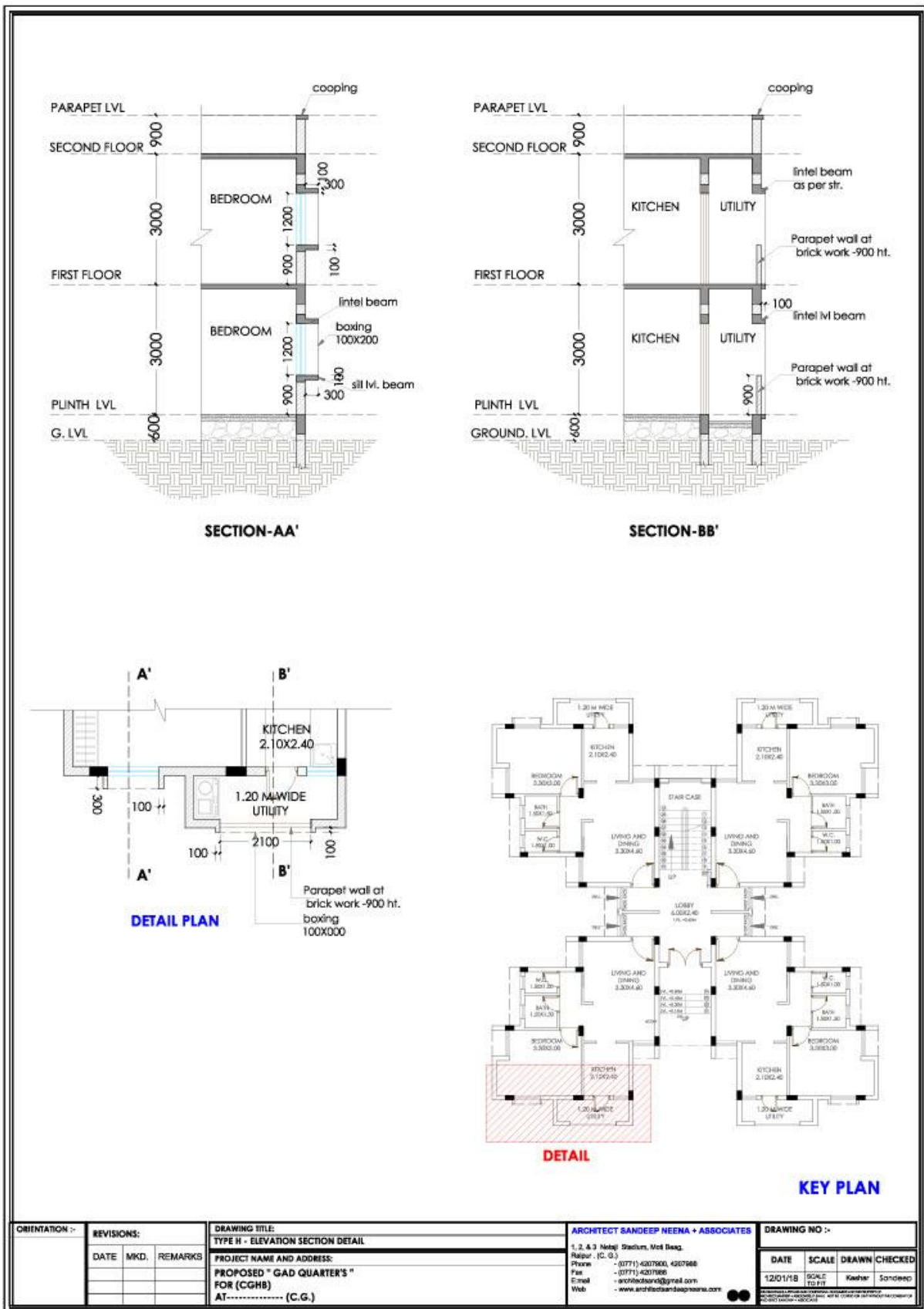


Rear Elevation



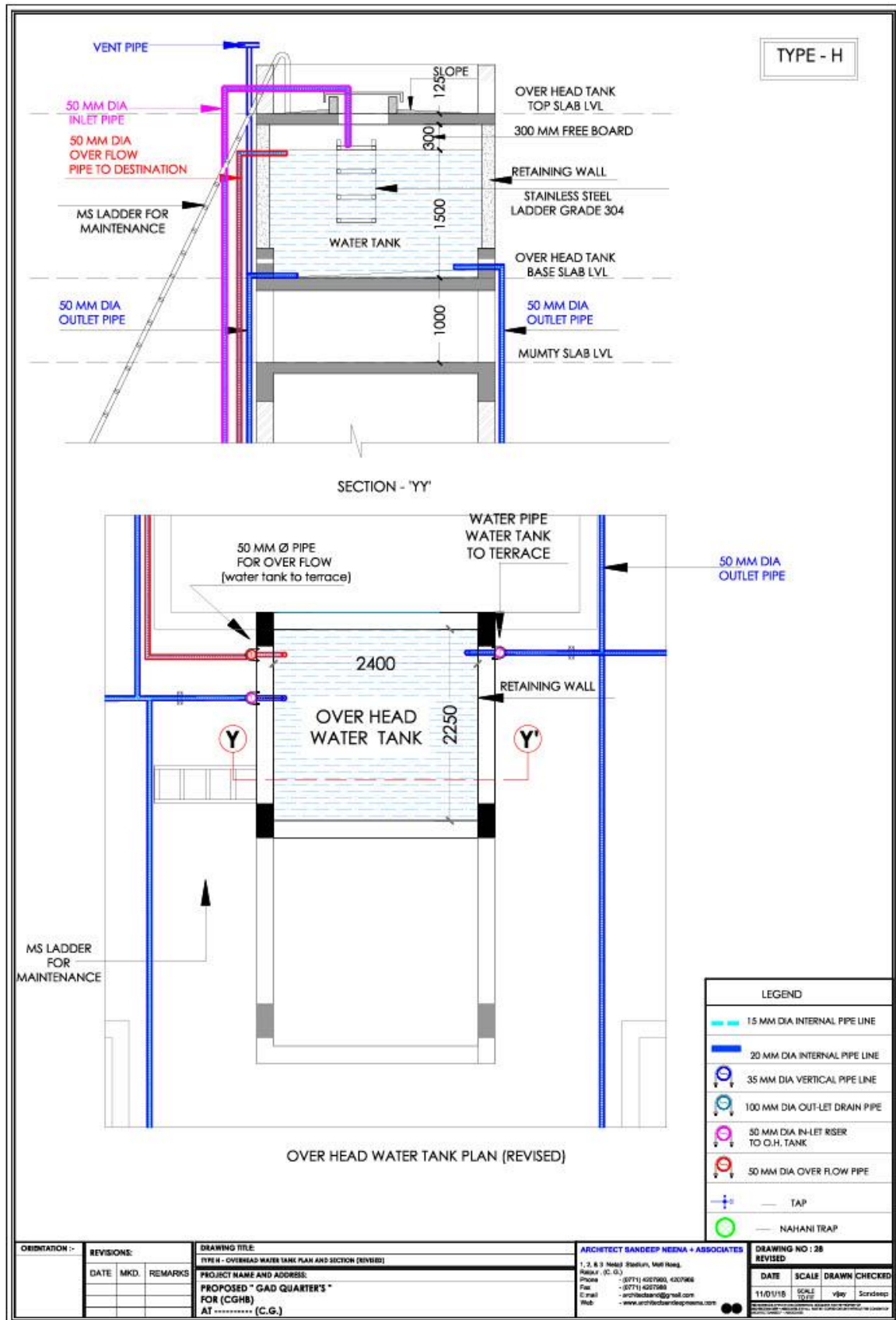


Section Detail-1

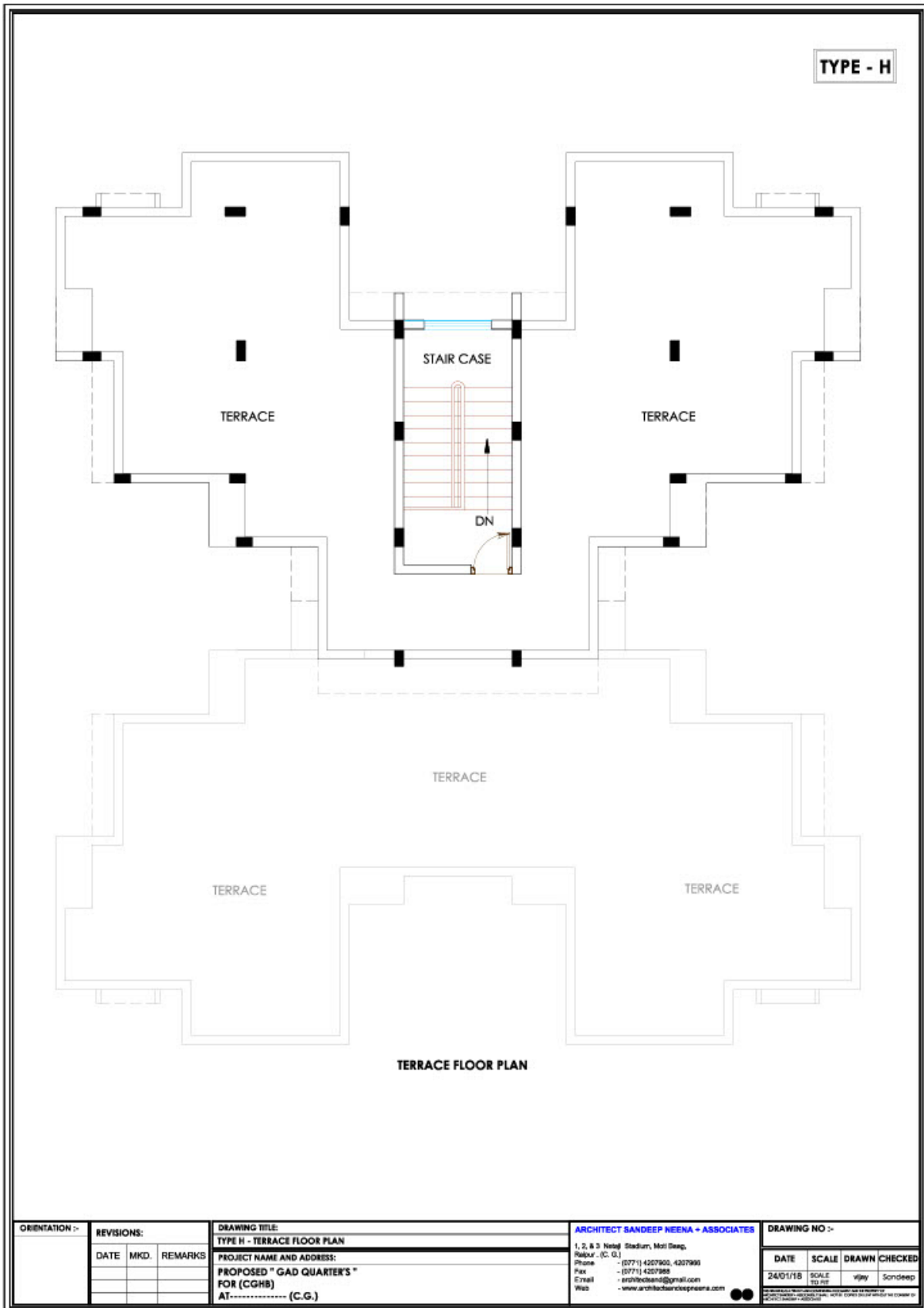


Section Detail-II

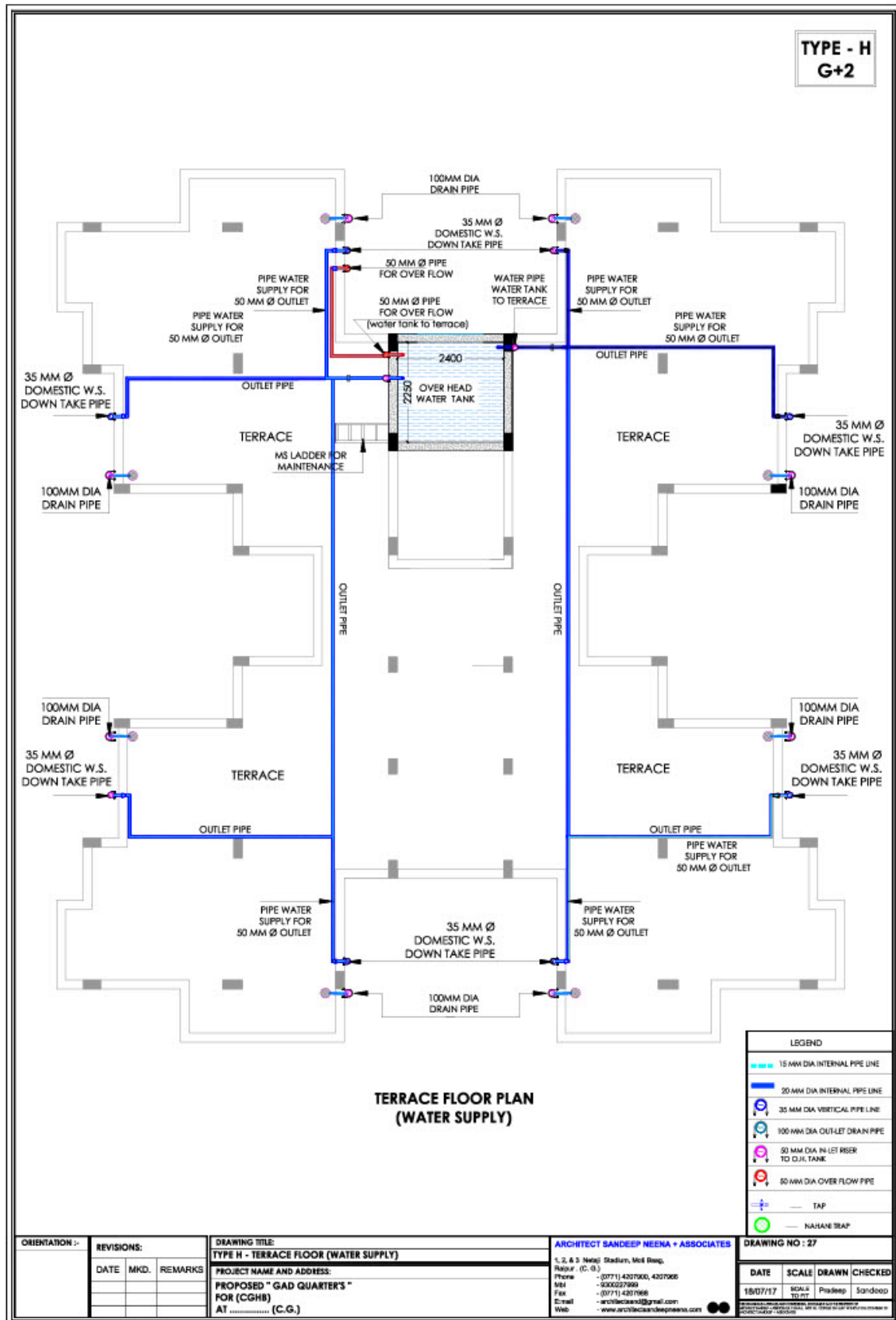




Overhead Tank Section



Terrace Floor Plan



Terrace Water Supply Plan

ANNEXURE 3
(Technical Specification)

FOR 1BHK H-TYPE (G+2)

S. No.	Particulars	Details
	Builtup Area (as per attachment drawing)	SINGLE UNIT-48.97 SQM
	Super Builtup area (as per attached drawing) per unit.	58.94 sqm or 634.19 sqft
	Super Builtup Total area of one block in Three Floors (G+2)+tower room	707.28 sqm or 7610.33sqft
1.	Foundation & Structure	<p>As per drawing attached in N.I.T</p> <p>A)Excavation for footing is done as per drawing and design provided by CGHB and as per site condition as per direction by Engineer-in-charge</p> <p>Note-No extra payment for work executed in or under water and/or liquid mud</p> <p>A) RCC frame structure with min. M-20 grade RMC concrete as per design-mix approved by Govt. Technical Institute (to be down by contractor) as per site condition and available material nearby that is to be used in construction.</p> <p>B) Masonry work in plinth & foundation with fly ash bricks(min avg wet compressive strength of brick should not be less than 3.5 N/mm²) in cement mortar 1:5 (1-cement:5-coarse sand) & plastered all exposed site in cement mortar 1:5 (1-cement:5-fine aggregate) as per Engineer-in-charge.</p> <p>C) Plinth height – Minimum 0.90 mtr. From finished road top level and adequate steps/ramp to be provided to facilitate two/four wheeler parking in front/back/side as per design and drawing and as per Engineer-in-charge.</p> <p>D)Steel used in construction should be thermo-mechanically treated bar of min grade FE-500</p> <p>E)Base work below footing and in parking area and other place should be down in min M-10 grade concrete,thickness as shown in drawing to a min. of 100mm thick.</p>
2	Plinth filling	<p>As per drawing attached in N.I.T</p> <p>A)If excavated soil or part of Excavated soil seems to be good for filling, same shall be refilled as per direction of Engineer In charge and the remaining part of foundation and plinth shall be filled using only Moorum /Sand /Crushed Stone Dust. Filling should be done in layer of 15cm .</p> <p>B)Balance unused excavated soil to be disposed up to 5.00 km. within area from the site or used for site leveling as directed by Engineer-in-charge including watering ramming etc. complete.</p> <p>C)Plinth protection to be provided by providing 50mm thick cement concrete 1:3:6 (1cement : 3 coarse sand :6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick</p>

		<p>ballast 40mm nominal size well rammed and consolidated and grouted with sand inc finishing the top smooth as per EIC</p> <p>D)Anti-termite treatment with chlorpyrifos/lindane in water as per manufacturer specification with five year service guarantee bond</p> <p>E) Treatment of inside and outside of plinth masonry wall on using diluted chemical emulsion @ 1.5 litre per hole, including drilling 12 mm diameter holes in plinth wall below plinth protection at the interval of 300 mm and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand)</p>
3	Superstructure	<p>As per drawing attached in N.I.T</p> <p>1)20cm thick wall of fly ash brick (min avg wet compressive strength of brick should not be less than 3.5 N/mm²) in CM 1:6 for outer wall and 10 cm for partition wall in CM 1:4 with RCC bend of 10cm thick with main bar of 10mm 4 bars and 6 mm dia ring @ 20 m C/C at sill and lintel level, and hopping 25x1.60mm or 2nos 6mm dia ms bar reinforcement at every third course of half brick wall must be provided ,chhajjas as per design and drawings shall be provided.</p> <p>2)All RCC work and superstructure should be done as per drawing and design with min M-20 grade RMC concrete.</p> <p>3)DPC with mix 1:2:4(1cement : 2coarse sand :4 graded crushed stone aggregate 20mm nominal size) with 2nos 8 mm bar to be provided at each window sill</p> <p>3)All R.C.C sunshade (chhajjas) shall be casted with plain face and bottom surface with drip mould and smooth quarter round cement concrete (haller) at top with cement concrete M-20,cement concrete haller at corner of top and mumty slab should also be provided.</p>
4	Slab	M-20 grade RCC (RMC) slab as per approved design and drawing provided and as per direction of EIC
5	Minimum floor height	<p>As per drawing attached in N.I.T</p> <p>Finished Floor Top to slab bottom 3.0 mtr</p>

6	Flooring, Dado and skirting	<p>A) Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of size not less than 400x400mm , make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete..in bed room ,living, dinning, kitchen, ,pooja,porch, drawing and passage floor,corridor,common area and toilet of each floor above all area should be provided with 100mm skirting all around of same tiles. Design as approved by Engineer-in- charge (Make Orient/Bell/kajaria/RAK).. Note- Tiles to be laid in continuous joint from one room to another</p> <p>B) Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size NOT LESS THAN 200X300 mm on wall 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 matching pigment complete. for bath and w.c dado(dado height should be upto door frame top level) ,kitchen platform dado design as approved by Engineer-in- charge. (Make Orient/Bell/kajaria/RAK).</p> <p>C) 40 mm thick PCC (Plain cement concrete flooring) with C.C. 1:2:4(1 cement : 2 fine aggregate : 4 coarse aggregate), finished with a coat of neat cement with water proofing compound in roof slab.</p>
7	Kitchen platform	<p>15mm thick grey Granite work (machine cut, table rubbed & mirror polished) for kitchen of required size laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) including joints treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish as per direction of Engineer-in-charge</p>
8	Joinery	<p>As drawing attached in N.I.T</p> <p>All Door Frame – All door frame should be of ECP i.e; engineered composite profile (section size - (A-Double rebate-5”x3”) (B-single rebate-4”x2.5”)) with holdfast as required including fixing of necessary butt hinges and screws etc complete as approved by Engineer-in-charge</p> <p>Door Shutters –</p>

		<p>Door Shutter- 35mm thick flush door shutters, core of block board construction with frame of first class Indian teak ply veneering on one face and commercial ply veneering on the other face of the shutter with vertical grains, cross bands and face veneering.including hinges all complete Hinges.</p> <p>S.S. Finished brass Door Fittings (Make -nova/pagi/oswal or similar type as approved by EIC)</p> <p>i. Sliding Bolt (L Drop): Main door - 300 × 16mm. Other door- 250 x 16mm</p> <p>ii. Tower Bolt- 250×10 mm</p> <p>iii. Handle: -150 mm (Clear)</p> <p>iv. Latch: All door -300x16x5 mm Toilet door - 250×12X5 mm.</p> <p>v) Door stopper (double) 150mm Brass Floor Door Stopper</p> <p>vi)Fixed stopper (60 mm long) 1nos</p> <p>as per direction of EIC</p>
9	Window, ventilator	<p>As drawing attached in N.I.T</p> <p>Alluminium anodized Powder coating(colour as decided by EIC) sliding windows and ventilators as per drawing made out of three track frame section and shutter frame of alluminium Z-section size 41.50mm x 29.29 mm x 1.50 mm weighing 0.636 kg/m and alluminium standard section 63.27 mm x 40 mm x 1.50 mm weighing 0.933 kg/m duly fixed with outer frame including ball bearing rollers of superior quality, guides locks, neoprene weather strips and 5mm thick black glass of good quality (make- saint gobin/modi) i/c one panel of steel mosquito net including all fitting of superior quality (decorative type) including applying a coat of lacquire as per direction of Engineer-in-charge duly fixed in walls with bolts and nuts required (Make-hindalco/galco)</p> <p>Grill for windows and ventilator- MS grill AS PER drawing and design of grill provided by CGHB to be provided at each window and ventilator only after applying a priming coat of Redoxid Zink chromate primer (as per attached drawing of grill) as approved by Engineer-in-charge</p>
10	Plastering	12 / 15/18 mm thick Cement Plaster in CM 1:5 & 6mm thick CM 1:4 wherever required& mixing water proofing material in outer cement plaster
11	Drip Course & Concrete Ghola	Drip course 2cm x 1.3 cm to be done on RCC work and 3 cm thick 7.5cmx7.5cm concrete ghola to be done at junction of wall and RCC slab/Chhajjas.

12	Chicken Mesh	30cm wide double folded strip of chicken mesh will be provided at all junction of brick work and RCC work.
13	Railing for staircase and landing	M.S.Tubular hollow pipe Railing having weight not less than 12 kg/sqm as approved by Engineer-In-Charge . NOTE:- Design of railing should be provided by CGHB
14	Balconies railing	M.S.Tubular hollow pipe Railing having weight not less than 12 kg/sqm as approved by Engineer-In-Charge . NOTE:- Design of railing should be provided by CGHB
15	Terrace, Tower Grill Gate and Parapet wall	As drawing attached in N.I.T A. Provide stair case tower with designed RCC slab. B. Provide 900 mm height parapet wall in 20 cm thick brick wall in cm 1:6 RCC parapet wall as per design and elevation. C. Tower MS sheet (1.5 mm thick sheet with 32x32x3 section as framing)door shutter, with 40x40x6 mm MS angle door frame location as shown in drawing as approved by Engineer-in-charge.
16	Building elevation	Building elevation shall be strictly in accordance with the approved drawings and design provided by the board. Note-1)18mm thick plaster in elevation plaster work must be done in 2 layer first 12mm in 1:5 cement mortar and second 6mm thick in 1:3 cement mortar
17	Painting / water proofing cement paint	1) PUTTY -Two coat White cement based putty (Make -JK / Birla) on inner side wall and slab above one or two priming coat. 2) INNER PAINT -Painting all inner wall and sealing with acrylic luxury emulsion (plastic) paint of shade as approved by EIC MAKE-ASIAN PAINT/ICI DULUX OR EQUIVALENT 3) EXTERNAL PAINT - Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete, with two or more coats after two coat primer.
18	Water Proofing	Providing and laying water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation: i) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound@ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of

		pipes and masonry with polymer mixed slurry. Above work must be done as per direction of EIC
19	Painting on Iron/ Wood Work / Doors	<p>1) Premium Synthetic enamel paint three coats in approved shades of approved make as directed by Engineer – in – charge door frames, wood work & iron work including priming coat with primer. (<i>Make Asian/Narolac</i>)</p> <p>2) DOOR-French sprit polish on both side of door after preparing the surface by rubbing down smooth with sand papers, <i>covering</i> the knots, if visible , applying a coat of wood filler, cleaning the surface, applying 50 or more coats of French polish till the surface gives high gloss</p>
20	Internal Sanitary and Collecting Chamber	<p>As per drawing attached in N.I.T</p> <p>A) Providing and fixing 1NOS-water closet squatting pan each house (Indian type W.C. pan), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required at any floor. The floor level of toilet shall be 50mm lower than the general floor level of house..</p> <p>MAKE-HINDWARE/PARRYWARE</p> <p>B. Sewage disposal from WC with 75 / 100/150 mm PVC pipe & waste water from kitchen, balcony & Bathroom with 75 /100/150 mm PVC pipe & fittings including clamp as required & as directed by Engineer – in – charge. It shall be responsibility of contractor to make essential arrangements for disposal of rain water from terrace (roof slab) by providing proper slope in roof slab and by providing appropriate PVC pipes and fittings all complete as directed as Engineer-in-charge. (Make Finolex/Supereme)</p> <p>C. As per requirement & suitable length providing and fixing in position underground sewerage HDPE PIPE as per IS code specification. full round pipe with gasket and necessary joint material laid underground over cement concrete 1:2:4 150mm thick and in proper gradient complete including excavation of trenches up to required depth and refilling of trenches with watering and ramming etc. complete.</p> <p>(a) 100 mm dia (c.c. base 30cm wide)</p> <p>(b) 150 mm dia (c.c. base 38cm wide)</p> <p>as approved by Engineer-in-charge</p> <p>D. PVC rain water pipe should be provided at each balcony 75/100 mm dia. including clamp at required spacing as per direction of Engineer-in-charge (Make Finolex/Supereme)</p> <p>E. As per requirement of each house constructing manholes and grease and grit chambers 90 cm x 45 cm clear inside</p>

		size with 200 mm thick Fly ash brick masonry in cement mortar 1:3 over 150 mm thick cement concrete 1:5:8 base, cement plastered in CM 1:3 inside complete with smooth finish including 95 cm x50 cm R.C.C. Manhole Cover 8 cm thick. as per Engineer-in-charge
21	Over Head Tank	As per drawing attached in N.I.T Designed elevated over head RCC water tank(SIZE AS GIVEN IN DRAWING) on top of the tower, the tank bottom slab should be clear 60cm from the tower slab for all dwelling unit as per approved by engineer-in-charge .
22	Internal Water Supply	As per drawing attached in N.I.T A)As per requirement of each block Providing and fixing in position at any floor UPVC PIPE & CPVC for hot water line pipe line best Indian make complete with fittings, except controls such as cocks and valves fitted and fix to the walls with approved clamps at any floor or buried under ground.Including making necessary chases and holes in walls and floors or trenching etc. complete with making good the wall or refilling including painting of pipes. (a) 15 mm dia (b) 20 mm Dia (c) 25 mm dia (d) 32 mm dia (e) 40 mm dia. B)Providing and fixing in position nos as shown in drawing (each house) WASH BASIN WITH WASTE PIPE ETC COMPLETE comprising of glazed vitrious china best Indian make of specified size with central slot for single valve , only and enamel or alluminium painted cast iron brackets, 15mm C.P brass (heavy type weight approx 400 grams) pillar valve, 32mm G.I waste coupling 15mm PVC inlet connection not less than heavy stop cock 375mm in length with 15mm dia brass 32mm G.I waste pipe with G.L trap outside of wall till gully trap or drain pipe with G.I clips including 40mm G.I pipe sleeve. Previously embedded in correct position complete with all joints and making chases and holes in floors and walls repairing the same with cement mortar (1:3) plastering and colouring to the original condition and paintings of fittings etc. complete. - 1)BASIN- MAKE –JAQUAR/PARRYWARE/HINDWARE C)Providing and fixing in position LONG BODY bib cock 3-Nos in each house (1-nos in wash area,1-nos in each WC/toilet.) MAKE- JAQUAR/PLUMBER

		<p>D) Providing long body sink cock for kitchen 02-nos each house above kitchen sink MAKE-JAQUAR/PLUMBER</p> <p>E) Providing and fixing in position 1- nos pillar cock above wash basin in each house as approved by EIC in each house (MAKE-JAQUAR/PLUMBER)</p> <p>F) Providing and fixing 1-NOS IN EACH HOUSE 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: Wall mixer with elegant knob (1400 grams) (MAKE- JAQUAR/PLUMBER)</p> <p>G) Providing and fixing in position 01 nos (each houses) chromium plated shower rose with shower arm 100x15 mm casted or sheet pressed with rim type complete including gasket joint at any floor MAKE-SHOWER-JAQUAR/PLUMBER</p> <p>H) Providing and fixing in position best indian make size-560x410 and bowl depth 215 ,1mm thick 01-nos each houses steel kitchen sink with C.I bracket and S.S plug 40mm including 40mm dia CP waste coupling non clogging type 40mm dia. G.I class -A waste pipe up to nahani trap i/c painting and fixing brackets Make-Jayana/Nirali</p> <p>I) As per requirement providing and fixing in position best indian make chromium plated angle valve for each basin mixer and gyser with wall flange complete in each bathroom. MAKE-JAQUAR/PLUMBER</p> <p>J) As per requirement providing and fixing in position best indian make stainless steel drain jali as approved by Engineer-in-charge</p> <p>K) As per requirement providing and fixing in position best indian make chromium plated screw down brass concealed cock heavy type (weight not be less than 450 grams) etc. complete. as approved by Engineer-in-charge</p> <p>L) As per requirement Providing and fixing in position best Indian make gun metal high pressure full way or Gate valve (peets Pattern) with iron wheel head complete. a) 15 mm dia b) 20 mm Dia</p>
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		<p>c) 25 mm dia d) 32 mm dia e) 40 mm dia as approved by Engineer-in-charge</p> <p>M)As per requirement Providing and fixing in position PVC gully trap with rebated tops (strong make) square bodies 150 x 150 mm CI grating and 100 mm out let with 300 X 300 concrete 1:2:4 (40 mm metal) hopper rebated curb 300 x 300 CI cover with frame including forming one or more horizontal and oblique side inlet in hopper setting in cement concrete 1:2:4 (40 mm metal) complete. MAke-As approved by Engineer-in-charge</p> <p>N)As per requirement in each house Providing and fixing in position G.M. heavy ferrule including making holes of Pipes line and making gasket joints etc. complete inclusive of clamps. (1) 15mm dia MAke-As approved by Engineer-in-charge</p> <p>P)As per requirement in each house Providing and fixing in position 100 mm PVC nahani trap with hinged perforated cover complete with gasket and cement caulked joints including making necessary chases and holes in floors and walls and repairing the same to original condition. Make as approved by Engineer-in-charge</p> <p>Q)As per requirement in each house Providing and fixing chromium plated Nahani Trap grating Make as approved by Engineer-in-charge</p> <p>R)Unions and other fittings are to be provided as per requirement and as directed by Engineer In charge for easy maintenance. (Make-Finolex/supreme for PVC & UPVC)</p>

GENERAL SPECIFICATIONS**FOR 1BHK H-TYPE (G+2) (DEVELOPMENT WORK 0.90 ACRES AT SITE)**

Sr.No.	Particulars	Details
01.	Area Clearance	Clearing Grass and Removal of Rubbish (clearing grass and removal of rubbish up to a distance of 50 meters outside the periphery of the area) if required as per direction of Engineer in charge.
02.	Site Leveling Work: -	Surface dressing of the ground including removing vegetation and making up undulations and in- equalities as per requirement and filling of the ground as required on site with local earth from approved source in layer not exceeding 20 cm in depth including ramming, watering, dressing etc. complete as per direction of Engineer in charge.
03.	R.C.C. Road Work: - (120 m length and 6.00m wide road)	<p>All roads shall be rigid pavements and shall be constructed as per detail specification.</p> <ul style="list-style-type: none"> ● Granular Sub-base as per Table:- 400-1 thickness not less than 200 mm by Plant mix method (with Mechanically crushed stone only), For Lower Sub-base with Grading-III Material.Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401 .Thickness -150 mm, As per attached drawing. ● Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size). PCC thickness - 100 mm, as per attached drawing. ● Cement Concrete Pavement - (Providing and laying design mix Reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works up to plinth level excluding cost of form work. M-30 Grade-Thickness -250 mm, as per attached drawing. ● Both Side Shoulder (PAVER BLOCK 60/80MM) as per Site Construction of Shoulders 60mm/80mm thick precast interlocking concrete blocks in any shape/pattern including and over 30 +/- 5 mm thick average coarse sand bed with joints of 3mm thick filled by fine sand including the cost of sand excluding cost of paver block, leveling with surface vibrator, temping and sweeping etc. complete for the work.
04.	Culvert 6.00 mtr.	Construction of RCC box culvert 1 Nos. for 6.00 mtr. wide road with excavation of soil up to 1.5 mtr. with base course of 1:4:8 of thickness 150 mm, RCC

		with mix of 1:1.5:3 base thickness 200 mm, wall thickness 200 mm and slab thickness 200 mm thick with i/c refilling along sides of wall complete in all respect. As per attached drawing.
05.	A. RCC Drain 600mm (L=120 m)	<ul style="list-style-type: none"> Construction of RCC drain with 1:2:4 Grade Concrete Raft 150 mm Thickness & Both Wall Thickness 150 mm for 600mm wide RCC Drain. with base course PCC 1:4:8 concrete i/c excavation, refilling along sides of wall and formwork as per attached detail Drawing, maintain slope and depth of drain as per Site Condition. Indicative Drawing attached.
06.	Tube Well	<p>01 Nos. Boring Drilling Bore Well Perfectly Vertical Depth as per requirement, Suitable 150mm Dia & unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818 length 40 Mtr. Length With Suitable Cap & Development of Tubewell as per direction of Engineer-in-charge. (01 Nos.) Guaranteed Bore with Minimum 3 Inch discharge with installing and fitting of</p> <p>Submersible pump</p> <ul style="list-style-type: none"> 3.0 HP, single phase - 1 nos <p>including all necessary fitting of pipe, cables all pipe and electric connection with starter all other as per requirement of functioning condition as per Site Requirement.</p> <ul style="list-style-type: none"> Supplying and fixing of following sizes 'B' class G I pipe with welded steel flange of suitable size at both the end of every pipe length, fixing with submersible pump and lowering with the pump in the bore well including necessary rubber gasket, nuts & bolts etc. as required. -50 mm dia (length as per site requirement) <p>Supplying and fixing of following sizes 'B' class G I pipe with all necessary Tee's, bends, sockets in the suction/ delivery line including cutting and threading etc. as required. 50 mm dia (length as per site requirement)</p>
07.	External Water Supply Works.	<ul style="list-style-type: none"> The water supply system shall be designed 40mm, (Length=200 Mtr.) & 50mm (Length=120 Mtr.) dia dia G.I. pipe line Including All fittings complete. Bass/Gun Metal Gate Valve, CI Sluice Valve, Machinery Chambers & all other requirement to complete the work in all respect as approved by Engineer-in-charge. (Make - B class GI Pipe of Tata/Jindal /Surya) Indicative Drawing attached. Constructing masonry Chamber 30x30x50 cm, inside with modular well burnt clay bricks of 35 kg/ cm² in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design :- 10 nos
08.	External Sewer Line	<p>The sewer line system shall be designed with Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand) including testing of joints etc complete.</p> <ul style="list-style-type: none"> 150mm (Length=100.00 Mtr.), 200mm (Length=150.00 Mtr.), <p>Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35 kg/ cm² in cement mortar 1:4 (1 cement : 4</p>

		coarse sand) R.C.C. top slab wit 1:2:4 mix (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20mm nominal size) finished with a floating of neat cement complete as per standard design. Inside size 90x80 cm and 45 cm deep including RCC cover with frame 450x600 mm internal dimensions. chamber - 20 nos
09.	Bio-Digester	Providing and Installing bio digester unit based on DRDO technology made of fiber reinforced plastic having composition and the technical specifications such as: Parentage of fiber glass (glass content in fiber glass should be minimum 30%) :- 33.33% Water absorption (as per ASTM) :- 0.30% Flammability :- as per ASTM Tensile strength :- 115 MPA Specific gravity at 25 degree centigrade :- 1.45 IZOD impact strength :- 65 KJ/M2 Heat deflection/distort temperature :- 65 deg C Corrosion resistance (non corrosive) fitted with Inlet pipe size rigid PVC :- 100mm Outlet pipe size rigid PVC :- 80mm Gas outlet rigid PVC with valve :- 20mm Bacteria immobilization PVC matrix (on all partition) and capacity :- UPTO 200 USER SIZE (4.0m X 2.0m X 1.25m) Capacity of bio-digester :- 10,000 liters Area of top, bottom and side walls :- 31.00 sq.m Area of partition walls :- 10.00 sq.m Total weight of FRP :- 462.60 kg Bacteria inoculums quantity :- 3000 liters Minimum thickness of side walls/top and bottom :- 7mm Number of inside partitions :- 4 Minimum thickness of partition wall :- 4mm.
10.	Campus Compound Wall- (Total Lenth - 120 mtr)	Construction of compound wall with RCC frame structure with 1:1.5:3 Grade Concrete for foundation column and plinth or ground beam, brick work with with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 above beam height upto 1.5 meter plastering on both face of wall 15mm thick cement plaster on the rough side of single or half brick wall of mix:In Cement Mortar 1:5 (1 cement : 5 fine sand) and 12mm thick cement plaster of mixIn Cement Mortar 1:5 (1 cement : 5 fine sand) and Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with: On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm
11.	Entrance Gate- for Colony	Providing and fixing 01 nos of M.S. gate for main entrance of campus with angle iron and tubular structure with RCC column on both side complete in all respect. Size 3.00 x 1.80 mtr (Minimun wiegth - 50 kg /sqm)
12.	Rain Water Harvesting	Construction of Rain Water Harvesting pit for area of 0.90 Acre as per Standard norms of Municipal/State Govt and as per requirement.
13.	Cleaning of all Open Area	Clean all site from deboned scraped unused building material etc. and make site fit for good and healthy Living.
14.	GANTARY GATE	Construction of Gantry Gate for main Entrance of colony as per site requirement. 12 m wide
15.	Garden Devlopment	PCC - 1:4:8 (thickness 100 mm) Garden Area - 12.00 x 20.00 m Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete

		<p>of minimum compressive strength of 250 kg/sq.cm Pigment Coloured (rubber mould) precast interlock concrete blocks</p> <p>Garden Area - 12.00 x 20.00 m</p> <p>Including Excavation and Filling as per Site Requirement.</p>
16.	Sump Well with pump Room	<p>Sumpell inner size 6.00 x 5.00 x 2.15 m Construction of 1 Nos. RCC sump well of capacity 20,000 Lit for each with 1:1½:3 Grade Concrete of minimum size of raft thickness 150mm , outer wall thickness min 200mm, slab thickness 125mm with 2 nos manhole for service, base course of 1:4:8 of thickness 150mm, including water stopper in each joint in wall with side back filling, all necessary fittings covers etc.</p> <p>Inner Water Pproofing - Providing and laying three course damp proofing treatment in water reservoir, sump, tank etc., with bitumen felt and blown type petroleum bitumen at the rate of 1.6 Kg/sqm 1st, 3rd course and 2nd course with tar felt including applying priming coat at the rate of 0.25 litre per sqm and fillets and rounding corners, wherever required, complete. Bitumen felt of type 2 grade 2 (Fibre base)</p> <p>Pump Room Above Sump Well - including constructing pump house over sumpwell 2.40m X 2.40mX 3m Size with 20 cm brick wall 1:6, RCC Slab, Lintel, chhajja, Doors, windows, shutters with chowkhat & fitting, holdfast including nuts & Bolts, plastering 6 mm C.M. 1:4 & 12/15 mm C.M. 1:5 Painting exterior surface with ACRYLIC SMOOTH exterior paint & painting inner Distempering with acrylic washable distemper to give an even shade.</p> <p>Installing 1 functioning and 1 standby mono-block electric pump set for water supply system 5 HP, 750 LPM, 20 m head, suction size 80 mm, delivery size 65 mm - 1 nos including all necessary fitting of pipe, cables all pipe and electric connection with starter all other as per requirement of functioning condition as per Site Requirement And shall be in ready to use condition complete in all respect</p>

GENERAL SPECIFICATION (FOR INTERNAL ELECTRIFICATION)**Redevelopment Work Phase-II GAD H Type Quarters, Jagdalpur**

Internal Electrification	:	Detailed Specification for Internal Electrification work
		1. POINT WIRING:- Point wiring for Light/Fan/Exhaust fan/Call Bell with 3x1.5 Sqmm FRLS PVC Insulated standard copper conductor Polycab / Havells / RR Kable (ISI) Make single core wire in concealed FRLS PVC Conduit (Heavy duty thickness of pipe should be 2 mm Sarswati / Polycab / AKG (ISI) Make) with 5/6 amps modular type Legrand (Myrius) / Polycab (Levana) / Havells (Athena) ISI Make switch, socket and other necessary required material i.e. Phenolic Laminated Sheet, suitable size G.I. Box, ceiling rose, fan box, holder and Earthing the box with same size of cable and two module fan regulator etc. as required.
		A. Light Point
		a. Short Point - 244 Nos.
		b. Medium Point - 136Nos.
		c. Long Point - 104 Nos.
		B. Fan/Exhaust Fan Point
		a. Medium Point - 144 Nos.
		C. Call Bell Point
		Long Point - 48 Nos.
		D. Twin Control Light Point - 112 Nos.
		E. Twin Control Fan Point - 96 Nos.
		F. 3 Pin 5/6 Amps Socket Outlet same board - 280 Nos.
		G. 3 Pin 6 Amps Socket Outlet Separate board (with 3x2.5 Sqmm Copper Conductor) required length of wire from same board
		a. Medium Point - 48 Nos.
		b. Long point - 144 Nos.
		c. Extra Long Point I - 144 Nos.
		H. Power wiring on separate board With 3 x 4 sqmm FRLS PVC insulated copper conductor from MCBDB to point either geezer point, power point or A.C. point., A.C. point also with 25/32 amp A.C. Starter Switch with same make of switch and accessories in all.
		a. Long point - 48 Nos.

	b. Extra long point I - 48 Nos.
	c. Extra long point I - 48 Nos.
	<p>2. Circuit / Submain wiring :- Wiring for FRLS PVC insulated Polycab / Havells / RR Kable (ISI) Make copper conductor for circuit wiring from MCBDB to same board wiring along with the 3 x 2.5 Sqmm, 6 x 2.5 sqmm & 9 x 2.5 sqmm in (Heavy duty thickness of pipe should be 2 mm Sarswati / Polycab / AKG (ISI) Make) 20 mm & 25 mm dia PVC Conduit & sub main wiring from Meter board to MCBDB of 32 mm dia PVC Conduit with 6 x 6 sqmm FRLS PVC insulated Polycab / Havells / RR Kable (ISI) Make wire in flats and 25 mm dia PVC Conduit with 3 x 4 sqmm FRLS PVC insulated Polycab / Havells / RR Kable (ISI) Make in common area MCB DB.</p>
	Length of Circuit & Submain wiring is as per required of the work decided by site engg. Incharge.
	3. MCBDB, TPN & SP MCB :- Legrand / Polycab / Havells (ISI) Make.
	a. 4 way double door TP&N MCBDB - 48 Nos.
	b. 4 way double door SP&N MCBDB - 04 Nos.
	c. 63 amps TP&N MCB - 48 Nos.
	d. 40 amps DP MCB - 04 Nos.
	e. 6 to 32 amps SP MCB - 392 Nos.
	<p>4. MAINTAINANCE FREE EARTHING with 2 meter long G.I. Pipe and 25 kg back filling compound & and interconnection it with metering panel by 25x6 mm G.I. strip at 0.50 meter below ground level , also provide masonry enclosure of suitable size with cover plate. - 16 Job</p>
	<p>5. T.V. Socket Legrand (Myrius) / Polycab (Levana) / Havells (Athena) ISI Make and RG-6 grade cable of Polycab / Havells / RR Kable (ISI) Make sepratlly form each point to outer common point in separate concealed rigid PVC (Heavy duty thickness of pipe should be 2 mm Sarswati / Polycab / AKG (ISI) Make) conduit - 96 Nos.</p>
	<p>6. Ceiling Fan - Supplying installation, testing and commissioning of 1200 mm sweep Havells/Usha/Crompton make (ISI) ceiling fan including wiring the down rod of required lenght with 1.5 sq mm FRLS PVC insulated copper conductor single core cable, earthing etc. with BEE Star rating form 3 star & above. - 96 nos.</p>

		7. Exhaust Fan - Supplying, installation, testing and commissioning of Havells/Usha/Crompton make (ISI) 300mm sweep midium duty (continuous running) 1400 rpm exhaust fan in existing opening in wall including earthing etc. complete as per specification.- 96 nos.
		8. LED Tube light Fitting - Supplying, installation, testing and commissioning of Havells/Wipro/Crompton (ISI) make 18/20 watt (4 feet) LED tube light fitting including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/ in false ceiling, including connection, earthing etc complete as per specification and IP20, P.F. should be greater than 0.9. LED chip efficacy ratio \geq 100 lumens /watt. - 284 nos.
		9. LED Lamp - Supplying, fixing, testing and commissioning of Havells/Wipro/Crompton (ISI) make 9 Watt LED lamps with inbuilt electronic driver heat sink and all other accessories in existing holder/ luminaries as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio \geq 100 lumens /watt. - 144 Nos.
		10. CABLES & end termination:- Required length of service cable from nearest electric pole pole to each metering panel with 01 No. Extra run for standby between two panel in 01 block of 3.5x50 sqmm polycab/havells/CCI Make one number FRLS PVC insulated, PVC sheathed, armoured, aluminum conductor power cable of 1.1 KV grade in RCC/HUME/HDPE pipe and terminate the end with required size of lugs, gland in 200mm dia RCC Hume Pipe and also provide suitable size chamber and 90 mm dia HDPE Pipe on electric pole for service cable.
		11. Metering Panel:- a) Fabrication, supply, installation, testing and commissioning of cubicle type 300mm deep compartmentalized floor mounted metering panel board of specified size and made out of 2 mm thick CRCA MS powder coated sheet with suitable size compartments for 6 nos. 3 phase energy meter with 200amp bus bars, Legrand / L&T / ABB (ISI) Make- 01 No. 160amp 25KA 4 Pole MCCB as Incomer and 07 Nos. 63amp 10KA MCCB Outgoing MCCB and 01 No. 40 amp DP MCB. also provide digital type Ammeters, Voltmeter, Indicating lamp, interconnection with 6 sqmm copper FRLS insulated wire and providing of 25x6 mm G.I. strip for earth connection as per specifications , suitable size MS stand etc complete as per specification :- 08 NOS.

		12. TESTING AND TEST REPORT:- All the work related to Internal Electrification work is to be necessary testing after completed the work. Contractor must have Also Provided Test Report (For Electrical Services connection from CSPDCL) from eligible electrical License Holder (Valid) Person.
		NOTED:- Every Item for Electrical work is specified but if any item not mentioned above specification and it also required complete the Internal Electrification work should be used by Contractor and no any extra payment made for this All the work is completed as per instruction of engg. Incharge.

GENERAL SPECIFICATON (FOR EXTERNAL ELECTRIFICATION)**Redevelopment Work Phase-II GAD H Type Quarters, Jagdalpur**

External Electrification	:	Detailed Specification for External Electrification work
		1. HT POLE :-
		Supply and erection of 'H' Beam Pole 152x152 mm size, 11 meter long 37.1 kg/Mtr Weight HT over head line single length supports complete with aligning and keeping it in truly verticle position, including digging of required size filling with M15 grade cement concrete of 0.60 mtr. Dia of required depth around the pole including muffing of 0.50 meter from ground level of 45 mm dia with plaster & 02 coat of approved make weather proof paint as per specification with 20 cm thick base foundation refilling the pit including painting of pole and other fittings with bitumen paint in bottom and one coat of red oxide and two coats of aluminum paint etc of approved make. the depth of foundation shall be 1/6 of the length of pole with Providing and fixing earthing arrangement for poles with G.I. lead of 115 turns of 50 mm dia connection with bracket/cross arm by pole with 4 mm dia GI lead through 15 mm dia 'B' class approved make G.I. protection pipe of length from bottom of pole to 1.5 meters above ground level packing of charcoal powder and salt as per specification including excavation of pit in all type of soil / rocks etc and supplying and fixing of 12x16 gauge bar-bed wire of specified length for safety measures as per IE rules including all staples and all other necessary materials complete as required and supplying and fixing of 11 KV Denger board as per specification complete. Including V-Cross arm, Top clamp, Single pole cut point, Cantilever, Service ring, 'H' Beam clamp or any other fitting as per specification and site requirement. - 08 Nos.
		2. LT POLE :-
		Supply and erection of RS Joist 175x85 or 175x90 mm size, 9 meter long 19.3 kg/Mtr Weight LT over head line single length supports complete with aligning and keeping it in truly verticle position, including digging of required size filling with M15 grade cement concrete of 0.60 mtr. Dia of required depth around the pole including muffing of 0.50 meter from ground level of 45 mm dia with plaster & 02 coat of approved make weather proof paint as per specification with 20 cm thick base foundation refilling the pit including painting of pole and other fittings with bitumen paint in bottom and one coat of red oxide and two coats of aluminum paint etc of approved make, the depth of foundation shall be 1/6 of the length of pole with Providing and fixing earthing arrangement for poles with G.I. lead of 115 turns of 50 mm dia connection with bracket/cross arm by pole with 4 mm dia GI lead through 15 mm dia 'B' class approved make G.I. protection pipe of length from bottom of pole to 1.5 meters above ground level packing of charcoal powder and salt as per specification including excavation of pit in all type of soil / rocks etc as per specification complete. Including Service ring, clamp or any other fitting as per specification and site requirement.- 04 Nos.

	3. TRANSFORMER :-
	<p>(A) 100 KVA Supplying, installing, connecting, testing and commissioning of CSPDCL approved make 100 KVA, 11/0.4 KV (Aluminium wound with tap changing arrangement) with approved make 4 star rated distribution transformer of accepted standard specification aluminium wound outdoor type 11/0.4 KV with hand operated off load switch, drain and filter valve, earthing terminals, filling of oil with installing on existing DP structure complete with Providing and fixing outdoor type pole mounting weather, dust and vermin proof LT distribution box made of 14/16 gauge MS sheet with clamping arrangements, lockable hinged door duly painted on all sides with red oxide, antirust and corrosion treatment, two coats of synthetic enamel paints of approved make and shade consisting of 01 nos. 160 Amps TP MCCB of Havells/ Legrand/ABB make with neutral link for incoming, 01 set. 04 strip aluminium bus bar 200 Amps supported on epoxy insulators, 09 nos. 200 amps 415 Volts HRC base with 150 Amp HRC Fuse of Havells/ Legrand/ ABB make for out going feeder, 02 nos. G.I. earth terminals, 01 nos. 7 lever Godrej padlock with keys and Light point with 01 nos. switch and holder with 100 watt lamp etc as per specification 02 Nos. and Supplying, laying and testing of Havells/ Polycab/ Gloster make 150 Sqmm. Single core armoured XLPE insulated and over all PVC sheathed heavy duty power cable (conforming at least IS ammendment) 1.1 KV grade cable with aluminium sheathed conductor with 150 sqmm connection/ termination i/c gland and lugs etc from transformer LT terminal to distribution box MCCB complete. as per requirement of work and decided by Engineer-in-charge. Earthing the transformer neutral, transformer body and distribution box with 25 x 3mm G.I. strip and connections etc. Hanging the transformer and distribution box with 100mm x 50mm angle channel & other fittings with clamp etc. as per specification complete. 01 No.</p>

	<p>(B) 200 KVA -Supplying, installing, connecting, testing and commissioning of CSPDCL approved make 200 KVA, 11/0.4 KV (Aluminium wound with tap changing arrangement) with approved make 4 star rated distribution transformer of accepted standard specification aluminium wound outdoor type 11/0.4 KV with hand operated off load switch, drain and filter valve, earthing terminals, filling of oil with installing on existing DP structure complete with Providing and fixing outdoor type pole mounting weather, dust and vermin proof LT distribution box made of 14/16 gauge MS sheet with clamping arrangements, lockable hinged door duly painted on all sides with red oxide, antirust and corrosion treatment, two coats of synthetic enamel paints of approved make and shade consisting of 01 nos. 300 Amps TP MCCB of Havells/ Legrand/ABB make with neutral link for incoming, 01 set. 04 strip aluminium bus bar 400 Amps supported on epoxy insulators, 09 nos. 300 amps 415 Volts HRC base with 250 Amp HRC Fuse of Havells/ Legrand/ ABB make for out going feeder, 02 nos. G.I. earth terminals, 01 nos. 7 lever Godrej padlock with keys and Light point with 01 nos. switch and holder with 100 watt lamp etc as per specification 02 Nos. and Supplying, laying and testing of Havells/ Polycab/ Gloster make 300 Sqmm. Single core armoured XLPE insulated and over all PVC sheathed heavy duty power cable (conforming at least IS ammendment) 1.1 KV grade cable with aluminium sheathed conductor with 300 sqmm connection/ termination i/c gland and lugs etc from transformer LT terminal to distribution box MCCB complete. as per requirement of work and decided by Engineer-in-charge. Earthing the transformer neutral, transformer body and distribution box with 25 x 3mm G.I. strip and connections etc. Hanging the transformer and distribution box with 100mm x 50mm angle channel & other fittings with clamp etc. as per specification complete. 01 No.</p>
	4. STAY WIRE :-
	Supplying and erection of stay set complete (galvanized) With 19/20mm dia x 1.8 metre long stay rod, anchor plate of size 300mm x 300mm x 6.4 mm, thimble stay clamps, turn buckle (19/20mm x 600mm), strain insulator and specified G.I. stay wire etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as per specification. Quantity is as per requirement of work and decided by. Engineer-in-charge.
	5. PIECING CONNECTOR :-
	Supplying and installation of insulation piecing connector made of UV stablized thermoplastic materials with contact teeth of copper alloy materials, electro galvanized hexagonal head nut and bolt, pressure pad, rubber pads etc. complete connection of Street light/ Distribution Box/ Tee connection/ Service connection suitable for 16 to 95 Sqmm. main conductor and 1-5 to 50 Sqmm tab conductor of AB cable. Quantity is as per requirement of work and decided by Engineer-in-charge.
	6. DISTRIBUTION BOX :-

	Supplying and fixing of Distribution box (3-phase) for housing 5 nos. 10 Amps MCCB including accessories for fixing in HT/LT pole suitable for AB XLPE cable with required length of 16 Sqmm single core unarmored cable of Polycab/ Havells/RR kabel Make ISI, 1100 volt Grade. Quantity is as per requirement of work and decided by Engineer-in-charge.
	7. ARIAL BUNCH CABLE :-
	Supplying, Laying, Testing & Commissioning of CSPDCL approved make XLPE insulated and PVC sheathed heavy duty 3x50 + 1x25 +1x35 Sqmm . Aerial bunch power cable conforming to IS-7098/Part-1/88 with latest amendment, 1.1 KV grade unarmoured cable with aluminium solid/ stranded conductor. The cable shall be laid in air as per specifications. Along with Suspension Clamp of Assemble made of aluminium alloy with electro galvanized MS bolt and washer plastic base cover, Dead end/ anchoring clamp made of extruded aluminium alloy with electro galvanized MS U bend Both and washer etc complete for 16 to 95 Sqmm uninsulated messenger wire of ABC cable, Universal Distribution Connector (Tee connector) made of extruded aluminium alloy with electro galvanized MS U bend both and washer etc complete for 16 to 95 Sqmm uninsulated messenger wire of AB cable & Earthing connector (1 bolt type) made of extruded aluminium alloy with electro zinc plated M.S. bolt and washer, pressure pad top clamp etc complete suitable for 2.5 to 50 Sqmm conductor of ABC cable etc. as per specification. The length of cable and quantity of Suspension Clamp, Dead end/ anchoring clamp, Universal Distribution Connector & Earthing connector is as per requirement of work and decided by Engineer-in-charge.
	8. ACSR CONDUCTOR:-
	Supply and erection of CSPDCL approved make Rabbit 6/1/3.35mm dia with calculated aluminium area 52.88 sq.mm, weight 214 kg/ km (100 amps) standard ACSR (aluminium conductor steel reinforced) conforming to IS 398-1961 of with CSPDCL approved make 11 KV glazed porcelain pin insulator with G.1. spindle, CSPDCL approved make 11 KV glazed porcelain disc type insulator with tension hardware at height upto 0.40km from ground level including stringing, binding with insulator, jointing wherever required, jumpering, tearing off connection complete etc and Making Internal connection between transformer, lighting arrester, AB switch, D.O. fuses including providing and connection with 05 ACSR conductor, heat shrinkage heavy duty PVC sleeves, soldering insulation tape binding etc. complete with all other necessary material complete and ready for charging as per IE rules as per specification including clearing off obstacle if any. The length of conductor and quantity of pin and disc insulator is as per requirement of work and decided by Engineer-in-charge.
	9. AIR BREAK SWITCH :-

	Supplying, Fixing & Testing of CSPDCL approved make air break switch with 3 insulator per phase complete with the operating rod and locking arrangement as required as per specification on existing pole with 100mmx50mm angle channel & other fittings with clamp etc. complete (set of three numbers).- 03 nos. (02 Nos. for transformer DP & 01 Nos. for Tapping point). Earthing the AB Switch with 25 x 3 mm G.I. strip and connections etc. as required.
	10. D.O. FUSE :-
	Supplying and erection of CSPDCL approved make 11 KV D.O. fuse unit on existing two pole structure with insulators and all other accessories complete including locking arrangement as per specification with 100mmx50mm angle channel & other fittings with clamp etc.- 02 nos. Earthing the D.O Fuse with 25x3mm G.I. strip and connections etc. as required.
	11. LIGHTNING ARRESTOR:-
	Supplying and erection of CSPDCL approved make three piece nonlinear resistor type lightning arrestor suitable for 3 wire, 11 KV overhead lines with rated voltage 9 KV (rms) with a nominal discharge current rating of 5 KA and complete with galvanised clamping arrangement, G.I. bolts, nuts, washers etc. as per specification with 100mmx50mm angle channel & other fittings with clamp.- 02 nos. Earthing the Lightning arrestor with 25x3 mm G.I. strip and connections etc. as required.
	12. LED STREET LIGHT :-
	Supplying, installation, testing and commissioning of 45 watt Wipro/Havells/Crompton Make 230/250 volts LED street light fitting with all accessories like driver heat sink made of die cast aluminium with IP66 protection and 10 KV surge protection on pole bracket including connection earthing etc complete as per specification and furnishing 5 yrs warranty certificate. P.F should be greater than 0.9 LED chip efficiency ratio \geq 120 lumens/watt. And connection with 2x4 Sqmm PVC insulated unarmed Aluminium conductor wire of Polycab/ Havells/ Gloster Make ISI. etc- 19 Nos.
	13. STREET LIGHT PANEL :-

	<p>Fabrication, supply, installation, testing and commissioning of cubical type compartmentalized wall/ floor mounted power cum control panel board of specified size upto 400 mm depth made out of not less than 2 mm thik CRCA MS sheet with 100 amp (20 x 5 mm) alluminium bus bar (3 phase + neutral) of required lenth, 01 nos. 04 pole 63 amp MCCB (10 KA) of Havells/Legrand/ AAB make, 04 nos. 50/5 amp CT, 03 nos. LED indicating lamp, 01 nos. VAF, 03 nos. 63 amps TP&N MCB of Havells/ Legrand/ ABB make, 01 Nos. 04 pale 415/500 volts 40 amps rating (AC-1 Duty) power contactor, 01 Nos. Analoge type Time switch (timer), interconnection between MCCB to bus bar, connection with 4x10.00 sqmm FRLS PVC insulated copper wire of Polycab/ Havells/ RR kabel Make for each TP&N MCB of suilable lenth and suitable size compartment for 01 nos. 3 phase energy meter. as per specification.- 01 Nos, Including One meter long iron stand & Earthing the Panel with 25x3mm G.J. strip and connections etc. as required.</p>
	14. WATER WORKS PANEL :-
	<p>Supply and fixing of outdoor type floor mounted weather, dust and vermin proof of IP:55 type LT main feeder pillar distribution box made or 16 gauge MS sheet with clamping arrangements, lockable hinged door duly painted on all sides with red oxide, anti rust and corrosion treatment, two coats of synthetic enamel paints or approved made and shade consisting of 01 Nos. 63 Amp TP&N MCCB (36 KA) of Havells Legrand/ ABB make, 100 amp (20x5 mm) alluminium bus bar (3 phase + neutral) of required tenth, 03 Nos. 40 Amp TP&N MCCB (25 KA) of Havells/ Legrand ABB make, 02 Nos, G.I. earth terminal, 02 Nos. 07 lever goderaj padlock with keys, 01 Nos. Light points with switch and holder with 1x28 watt CFL, 0-1 nos. 100/5 amp CT, 03 nos. LED indicating lamp, 01 nos. VAF, interconnection between MCCB to bus bar, connection with 4x10.00 sqmm FRLS PVC insulated copper wire of Polycab/Havells/ RR kabel Make for each TP&N MCCB of suitable lenth and suitable size compartment for 01 nos. 3 phase energy meter, as per specification.- 01 Nos. Including One meter long iron stand & Earthing the Panel with 25 x 3 mm G.J. strip and connections etc. as required.</p>
	15. EARTHING :-
	<p>(A) Earthing with 2 meter long G.I. pipe and 25 kg back filling compound including making bore pit of minimum 150 mm dia providing and laying approved make earthing electrode of pipe in pipe technology as per IS 3043 (R 2016) -1987 made of corrosion free G.1 pipes having outer pipe of 80 mm dia and inner pipe of 50 mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrengment and watering pipe etc.as per specification.- 02 nos.</p>

	(B) Providing and fixing earthing arrangement with 40 mm dia "B" class G.I. pipe electrode of Tata/ Jindal/ Prakasi Surya make i/c packing of charcoal power and salt as per specification watering pipe 20 mm dia GI with 40 x 20 mm reducer connection etc. complete with refilling the pit as required i/c excavation of pit in all type of soil providing and making brick masonry chamber of suitable size with CI frame and cover funnel etc complete. as per IS specification. - 13 nos.
	16. SERVICE CABLE :-
	(A) Supplying and laying of 4x16 Sqmm. size Polycab/ Havells/ Gloster make one number PVC insulated, PVC sheathed, steel armoured, aluminum conductor power cable of 1.1 KV grade on existing Surface/ air and erection of G.I. guard wire of size 8 SWG to 4 SWG including binding at each meter, required angle/ channel iron cross arms/bracket and 4x16 Sqmm size end termination with brass compression gland and alluminium lugs as per specification for service connection for Water works and Street light panel from LT pole to panel.
	(B) Supplying and laying of 4x10 Sqmm. size Polycab/ Havells/ Gloster make one number PVC insulated, PVC sheathed, steel armoured, aluminum conductor power cable of 1.1 KV grade on existing Surface/ air and erection of G.I. guard wire of size 8 SWG to 4 SWG including binding at each meter, required angle/ channel iron cross arms/bracket and 4x10 Sqmm size end termination with brass compression gland and alluminium lugs as per specification for service connection for Water works and Street light panel from LT pole to panel.

ANNEXURE 3
(Land Use Details)

छत्तीसगढ़ औनलाइन सुचना से नागरिक सशक्ति

इलेक्ट्रॉनिक आवेदन तिथि

08/11/2024

चोइस केंद्र

जगदलपुर कलेक्ट्रेट

आवेदन सफरने क्रमंक
शुद्ध पति

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5.00

छत्तीसगढ़ शासन

उप संचालक, नगर तथा ग्राम निवेश, क्षेत्रीय कार्यालय

बस्तर

दिनांक : 08/11/2024

प्रति,

आवेदक श्री / श्रीमती

छत्तीसगढ़ गृह निर्माण मंडल बस्तर संभाग

आत्मज / जौजे

छत्तीसगढ़ गृह निर्माण मंडल

विषय : जगदलपुर विकास योजना 2021 के अनुसार भूमि-उपयोग की जानकारी प्रदान करने बबत ।

उपरोक्त संदर्भ में सूचित किया जाता है कि आपके द्वारा प्रस्तुत आवेदन पत्र के साथ संलग्न खसरा मानचित्र में विस्तृत विवरण एवं अधतन बटांकन नहीं दर्शित है । अतः जगदलपुर विकास योजना 2021 के अनुसार भूमि उपयोग की जानकारी संपूर्ण खसरे के आधार पर मोटे तौर पर दी जा रही है , जिसका विवरण निम्नानुसार है -

खसरा / पोस्ट	खसरा नं.	भूमि उपयोग	बस्तर
जगदलपुर देहरत	14/7	सार्वजनिक एवं अर्द्धसार्वजनिक, आवासीय	

नोट:-आवेदक के द्वारा प्रस्तुत खसरा मानचित्र अनुसार मोटे तौर पर उपरोक्त जानकारी दी जा रही है।स्थल की वास्तविक स्थिति में भिन्नता पाये जाने पर यह जानकारी ग्राह्य नहीं होगी एवं इसके लिए संपूर्ण दायित्व एवं क्षतिपूर्ति हेतु आवेदक जिम्मेदार होगा ।

उपरोक्त जानकारी के विषय में यह स्पष्ट किया जाता है कि -

- 1.संबंधित भूमि का किसी भी प्रकार के विकास करने या कालोनी बनाने पर प्लॉट देपने के पूर्व वैधानिक रूप से उक्त क्षेत्र का अभिव्यक्त इन कार्यालय से अनुमोदन करना एवं अन्य प्रचलित नियमों एवं अधिनियमों के अंतर्गत कार्यवाही करना अनिवार्य है ।
- 2.उ.म. नगर तथा ग्राम निवेश अधिनियम 1973 की धारा 30 के अंतर्गत इसे किसी भी प्रकार की अनुमति न समाप्त जाये ।
- 3.इसी भूमि-स्वामित्व संबंधी प्रमाण पत्र न समाप्त जाये ।

जारी करने की तिथि/ Date of Issue: 20/11/2024

Signature valid

Digitally signed by
S R Agera
Date: 2024.11.20 11:35:03
IST

- 1.यह प्रमाण पत्र इलेक्ट्रॉनिक प्रमाण पत्र की मुद्रित प्रतिलिपि है जिसे सुपुत्र प्रौद्योगिकी अधिनियम 2008 के तहत प्रमाणित किया गया है।
- 2.इस इलेक्ट्रॉनिक प्रमाण पत्र का सत्यापन व शेषाधिकार वाले अधिकारी के डिजिटल हस्ताक्षर से अधिप्रमाणित होने का सत्यापन गैर द्वारा किया गया है तथा इस पर मुद्रित जानकारी उक्त इलेक्ट्रॉनिक प्रमाण पत्र में निहित है।
- 3.आवेदन संदर्भ क्रमंक का उपयोग कर इस प्रमाण पत्र की वैधता जांचत जानकारी edistrict.cgstate.gov.in से अथवा QR Code Scanning करत की जा सकती है।



S R Agera

अधिकारी
नगर तथा ग्राम निवेश
बस्तर



ANNEXURE 4
(FAR Details)

मिश्रित भूमि उपयोग के मानक

(4.-सा -23)

भूमि का आकार वर्गमीटर में	आवासीय				व्यवसायिक		पी.एस.पी		सामने का सेट बैक
	भूखंडीय विकास		बहुमंजिला भवन						
	भूतल कवरेज %	एफ. ए. आर	भूतल कवरेज %	एफ. ए. आर	भूतल कवरेज %	एफ. ए. आर	भूतल कवरेज %	एफ. ए. आर	मीटर में
1	2	3	4	5	6	7	8	9	10
240 से कम	60	1.25	—	—	—	—	—	—	3.50
240 से अधिक 500 तक	50	1.25	—	—	—	—	—	—	3.50
500 से अधिक 1000 तक	40	1.25	35	1.5	60	1.5	40	1.25	6.0
1000 से अधिक 2000 तक	—	—	35	1.5	50	1.75	30	1.5	9.0
2000 से अधिक 4000 तक	—	—	35	1.5	50	2.0	30	1.5	9.0
4000 से अधिक 6000 तक	—	—	30	1.75	45	2.0	30	1.6	9.0
6000 से अधिक 10000 तक	—	—	30	1.8	40	2.0	30	1.7	12.0
10000 से अधिक	—	—	30	2.0	40	2.50	30	1.75	15.0

ANNEXURE 5
(Soil Testing Report)

GEC/CIVIL/TESTING/23 /.....

JAGDALPUR DATE.....

TEST REPORT

1. Customer's Name : Executive Engineer, Chhattisgarh
Housing Board, Division
Jagdalpur Distt. Bastar (CG)
2. Customer's Reference No & Date : Letter No. 950/EE/2023
Jagdalpur dated 04.08.2023
3. Specification of the test : As per I.S./B.I.S I.S. 6403-1981
2131-1981

PARAMETER:-

1. Depth of test pit = 2.50
2. Size of Pit = 2.00 m x 2.00 m
3. Type of Soil = Black Soil
4. Density of Soil = 1.80 T/m³
5. Factor of safety = 3

RESULT

Safe bearing Capacity of Foundation Strata (Soil Mass) pertaining to construction of **CONSTRUCTION OF S.D.M OFFICE BUILDING AT JAGDALPUR DISTRICT :- BASTAR (C.G)** have been Estimated by SPT method on 2.00m x 2.00m Square footing and at a depth of at 2.50 m from ground level as :-

CONSTRUCTION OF S.D.M OFFICE BUILDING AT JAGDALPUR DISTRICT: - BASTAR (C.G) - 15.00 T/m²

dlm
Tested by

[Signature]
HOD CIVIL

[Signature]
Principal

Govt. Engineering College Jagdalpur

