



### Interior Equipment

- Luggage rack system in each car
- Reading lights, Steward calling push button and clothing hooks
- High travelling comfort by large seat distance and adjustable backrest
- Public Address system integrated in the passenger audio/video entertainment system
- DVD video system in all cars
- 5 channel audio system at seat
- Closed toilet vacuum system for environmental protection
- Galleys for catering service with drinks, snacks prepared, cold meals heated with a steamer
- At-seat service for the passengers
- Complete air condition in the passenger area
- Independent separate air conditioning for driver's cab



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The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.



## Paradise (DH4-1)

for the Iranian Islamic Republic Railways

### Design Objectives

- Diesel-hydraulic drive system
- High flexible passenger capacity
  - Configurations 3 to 8-car units
  - Ability to couple up to 4 trainsets
- Heavy environmental conditions (temperature, sand storms)
- Long distance train with high passenger comfort
  - Air plane like passenger services
  - Audio/Video entertainment system
- Steel structure
- Operational use on Tehran–Mashhad route (1000 km)
- Semi-permanent couplers for flexible train length
- Under floor arrangement of all major components



**SIEMENS**

efficient rail solutions



### Technical data for a 4-car unit

Track gauge	1435 mm
Passenger capacity	252 seats
Max. speed	160 kph
Overall vehicle length	105.60 m
Weight (empty)	240 t
Power supply	4 x 588 kW Diesel engine (MAN) 4 stroke diesel with turbo charger and intercooling app. 0,79 m/s <sup>2</sup>
Maximum acceleration	Hydraulic turbo gear (Voith)
Power transmission	2'B' + B'2' + B'2' + B'2'
Axel arrangement	Bogie SF5000 DD
Bogie	18.5 t
Maximum axle load	Steel spring/link
Primary spring type	Air bellow
Secondary spring type	Electro pneumatic friction brake with wheel disk
Brake	3 AC 400 V, DC 24 V SIBAS 32®
Auxiliary power system	
Traction control	

### Car Layout

	A-car	C-car	B-car
Driver's cab and seat for train chief	Yes	-	Yes
Number of seats	55	70	57
Wheelchair space	-	-	2
Oriental style toilet	1	2	-
European style toilet	-	-	1
Luggage storage area	Yes	Yes	Yes
Galley for on-board Service	Yes	-	Yes
Fixed foldable tables	-	-	Yes
Seat back tables	Yes	Yes	-

### Car Layout

